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B-TC-KA750- 0-2

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B-DD-L0002-0 E-UA-L0002-0 DPM DPM PARTS LIST K-PL-L0002-0-DBP DRILL AND ETCH DRAWING E-MD-5013555-0-0 E-EC-5013555-0-0 ETCH CUT DRAWING DPM CIRCUIT SCHEMATIC D-CS-L0002-0-1 thru 25 DPM BLOCK DIAGRAM D-BD-L0002-0-26 D-BD-L0002-0-27 ALPCTL FUNCTION CHART B-DD-L0003-0 MIC E-UA-L0003-0-0 MIC MIC PARTS LIST K-PL-L0003-0-DBP E-MD-5013693-0-0 DRILL AND ETCH DRAWING ETCH CUT DRAWING E-EC-5013693-0-0 MIC CIRCUIT SCHEMATIC D-CS-L0003-0-1 thru 22 MIG BLOCK DIAGRAM D-BD-L0003-0-23 UBI B-DD-L0004-0 UBI E-UA-L0004-0-0 K-PL-L0004-0-DBP UBI PARTS LIST DRILL AND ETCH DRAWING E-MD-5013827-0-0 E-EC-5013827-0-0 ETCH CUT DRAWING UBI CIRCUIT SCHEMATIC D-CS-L0004-0-1 thru 19 D-BD-L0004-0-20 UNIBUS INTERFACE K-MP-L0004-0-21 UBI MICROCODE LISTING B-DD-L0008-0 PCS E-UA-L0008-0-YA PCS K-PL-L0008-0-DBP PCS PARTS LIST E-MD-5015549-0-0 DRILL AND ETCH DRAWING E-EC-5015549-0-0 ETCH CUT DRAWING PCS CIRCUIT SCHEMATIC D-CS-L0008-0-1 thru 20 B-DD-M9313-0 UET D-UA-M9313-0-0 UET UET PARTS LIST K-PL-M9313-0-DBP D-MD-5013847-0-0 DRILL AND ETCH DRAWING D-CS-M9313-0-1 thru 8 UET CIRCUIT SCHEMATIC B-DD-5413795-0 11/750 CONTROL PANEL 11/750 CONTROL PANEL E-UA-5413795-0-0 K-PL-5413795-0-DBP 11/750 CONTROL PANEL E-MD-5013794-0-0 DRILL AND ETCH DRAWING E-EC-5013794-0-0 ETCH CUT DRAWING D-CS-5413795-0-1 11/750 CONTROL PANEL

KA750

DPM

UNIT VARIATIONS COVERED BY THIS PRINT SET KA750

Field Maintenance Print Set

MP01024 **Digital Equipment**

Corporation

KA750

SIZE CODE B TC

1/2			digital
TITL		50 DDING CDG	
/ /		50 PRINT SET	
117/-			
TE E	B TC	NUMBER KA750-0-2	REV.
17/80	DIST.		
DA 9	DATE DATE DATE DATE	DATE KA7	NATE KA750 PRINT SET (//) So DATE B CODE NUMBER KA750-0-2



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D-UA-M9202-0-0

CABLE, UNIBUS (JUMPER)

A-PL-G727-0-0 B-CS-G727-0-1 GRANT CONTINUITY
GRANT CONTINUITY G727

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	MPO1024

Digital Equipment Corporation

TW

KA750

11750 CPU

DATE USED ON OPTION/MODEL KA750 PRINT SET DATE REVISIONS 9-17-80 Leven PROJ. ENG. DATE REV. NUMBER KA750-0-2 В FIELD SERV. DIST. SHEET 2OF_2

UNIT VARIATIONS COVERED BY THIS PRINT SET

KA750

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UMBER

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SIZE CODE

B DD size code REV. NUMBER DRAWING NO. SHTS. PART NO. **DESCRIPTION REVISIONS** BCDEE MODULE REVISION B C D E F B-DD-L0002-0 2 DPM DRAWING DIRECTORY 2 DEE E-UA-L0002-0-0 DPM UNIT ASSEMBLY BCDDD 2 K-PL-L0002-0-DBP DPM PARTS LIST BBCCC 6 F-MD-5013555-0-0 DPM DRILL & ETCH DRAWINGS C C DP10P10P1 5013555 ETCHED BOARD K-PC-L0002-0-DBI DPM PC DESIGN DATA BASE IDEA BCDDE K-CS-L0002-0-DBS DPM DESIGN DATA BASE SUDS E-EC-5013555-0-0 3 BCDDD DPM ETCH CUT DRAWINGS 1 BBBBB D-CS-L0002-0-1 DATA PATH (03:00) BBBBBB 1 D-CS-L0002-0-2 DATA PATH (07:04) D-CS-L0002-0-3 DATA PATH (11:08) BBBBB $B \mid B \mid B \mid B \mid B$ D-CS-L0002-0-4 DATA PATH (15:12) BBBBBB D-CS-L0002-0-5 DATA PATH (19:16) BBBBBB D-CS-L0002-0-6 DATA PATH (23:20) BBBBB D-CS-L0002-0-7 DATA PATH (27:24) BBBBBB 1 DATA PATH (31:28) D-CS-L0002-0-8 $B \mid B \mid B \mid B \mid B$ 1 DATA ROTATOR LOGIC D-CS-L0002-0-9 D-CS-L0002-0-10 1 ALK, CLA, & CCC D-CS-L0002-0-11 1 SCRATCH PAD CONTROL BBBBBB D-CS-L0002-0-12 1 CS LATCH, LITREG BBB D-CS-L0002-0-13 HI CONTROL STORE ADD B | B | B | B D-CS-L0002-0-14 LO CONTROL STORE ADD B C C C C D-CS-L0002-0-15 LOW BRANCH BITS B | C | D |D-CS-L0002-0-16 BRANCH BIT 00 NOTES: * CONTROL SOURCE IS THE SUDS DATA BASE REVISIONS CHG NO. NO CONTROLLED PAPER ORIGINALS EXIST TW002
TW003 ALL DOCUMENTATION WAS RELEASED AT REVISION 'B' 12-80 2-82 **I2-82** 3-83 TITLE DRN. **USED ON OPTION/MODEL** J. CASEY "THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PRO-PERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL 11/750 DPMCHK'D J. CASEY NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF B DD NUMBER REV. ENG. ITEMS WITHOUT WRITTEN PERMISSION. D. LI L0002-0 COPYRIGHT© 1980 PROD. V. PARKER DIGITAL EQUIPMENT CORPORATION SHEET 1 OF 3

L0002-0

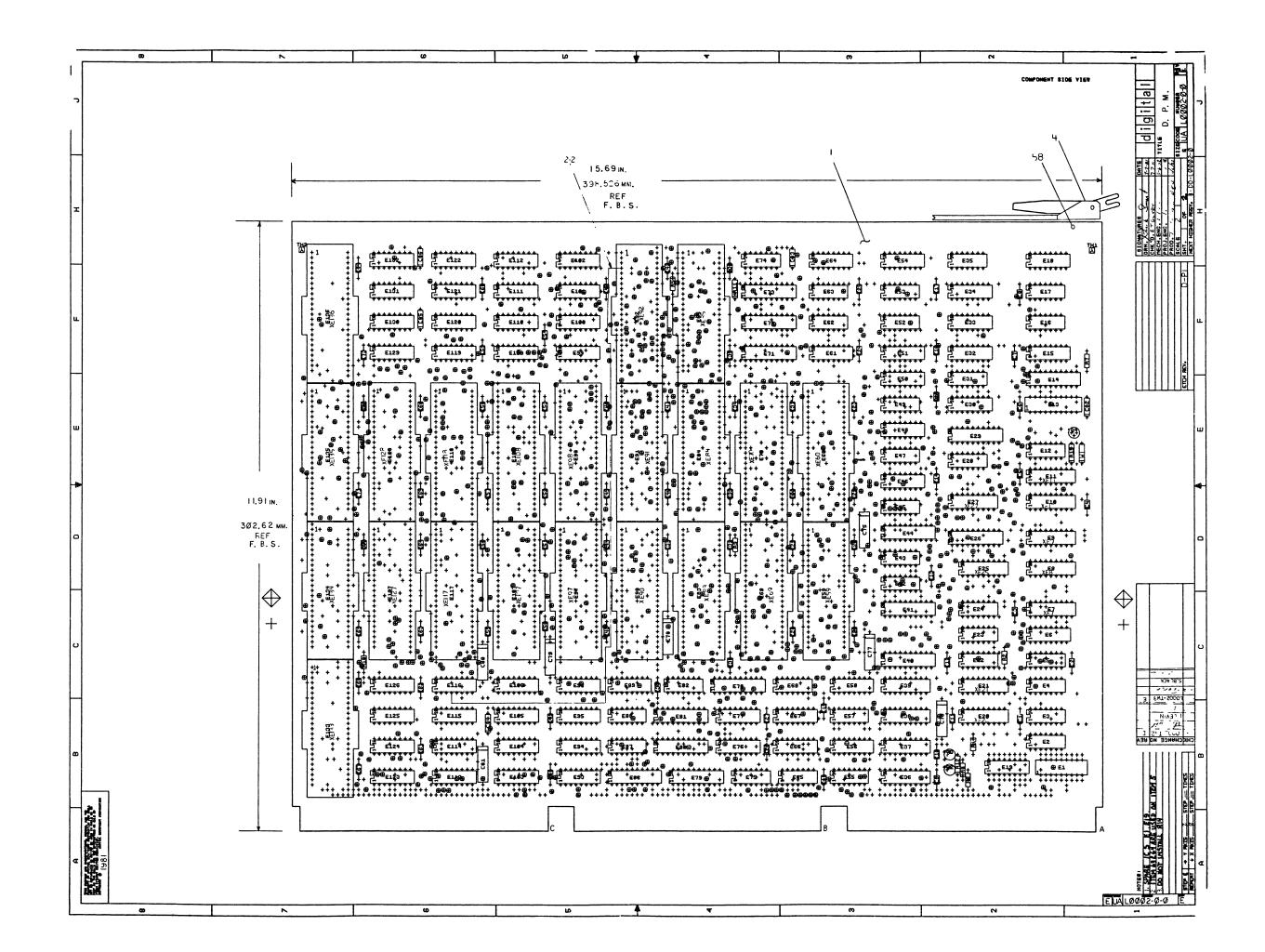
B DD size code NUMBER DRAWING NO. OF SHTS. PART NO. **DESCRIPTION REVISIONS** D-CS-L0002-0-17 1 SYS CLOCK BCDDD D-CS-L0002-0-18 1 IR DECODE BBCCC D-CS-L0002-0-19 1 D SIZE & I SIZE D-CS-L0002-0-20 1 CS GRP B PARITY D-CS-L0002-0-21 1 VISIBILITY BUS B | B | B | C D-CS-L0002-0-22 1 FORWARD REFERENCE D-CS-L0002-0-23 1 BBBBB FORWARD REFERENCE BCDDD 1 D-CS-L0002-0-24 FORWARD REFERENCE 1 BBBBB D-CS-L0002-0-25 FORWARD REFERENCE BBBBB 2 D-BD-L0002-0-26 BLOCK DIAGRAM BBBBB 1 D-BD-L0002-0-27 ALPCTL FUNCTION CHART **NOTES:** * CONTROL SOURCE IS THE SUDS DATA BASE REVISIONS DATE CHG NO. NO CONTROLLED PAPER ORIGINALS EXIST ALL DOCUMENTATION WAS RELEASES AT REVISION 'B' USED ON OPTION/MODEL 11/750 DRN. TITLE "THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PRO-J. CASEY PERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL DPM CHK'D J. CASEY NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF SIZE CODE NUMBER REV. ENG. D. LI ITEMS WITHOUT WRITTEN PERMISSION. B DD F L0002-0 COPYRIGHT® 1980 DIGITAL EQUIPMENT CORPORATION PROD. V. PARKER SHEET 2 OF 3

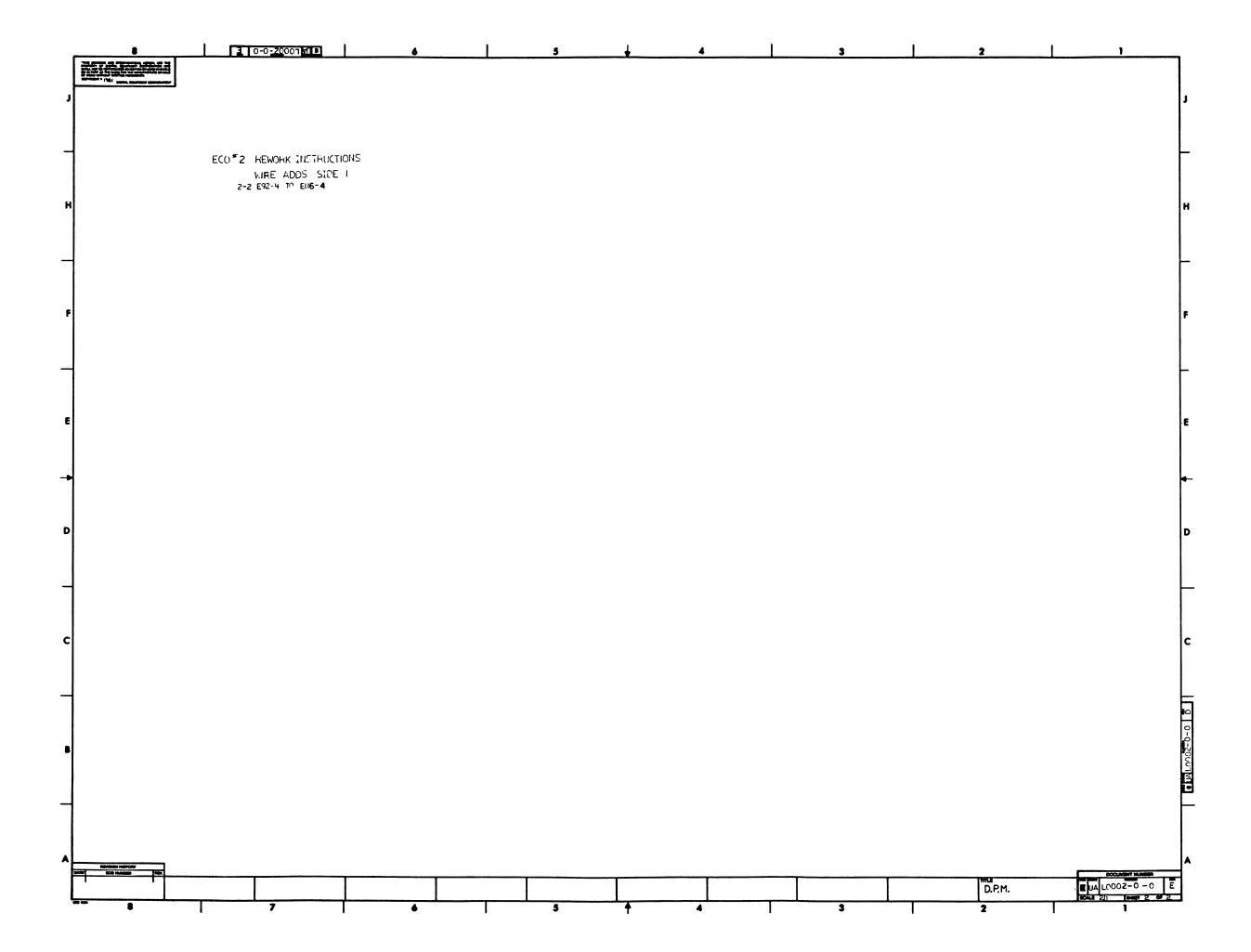
10002-0

B DD size code REV. NUMBER DRAWING NO. OF PART NO. **DESCRIPTION REVISIONS** MODULE REVISION C1 C1 C1 C1 C1 C1 E-UA-L0002-0 2 C1 C1 C1 E-EC-5013555-0-0 3 c c c 5013555 NOTES: REVISIONS CHG NO. DATE USED ON OPTION/MODEL DRN. TITLE 2-24-82 "THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL T. WALSH CHK'D NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. T. WALSH 2-24-82 DPMSIZÉ CODE DD NUMBER REV. ENG. D. LI F L0002-0 COPYRIGHT© 1982 PROD. DIGITAL EQUIPMENT CORPORATION V. PARKER SHEET 3 OF 3

L0002-0

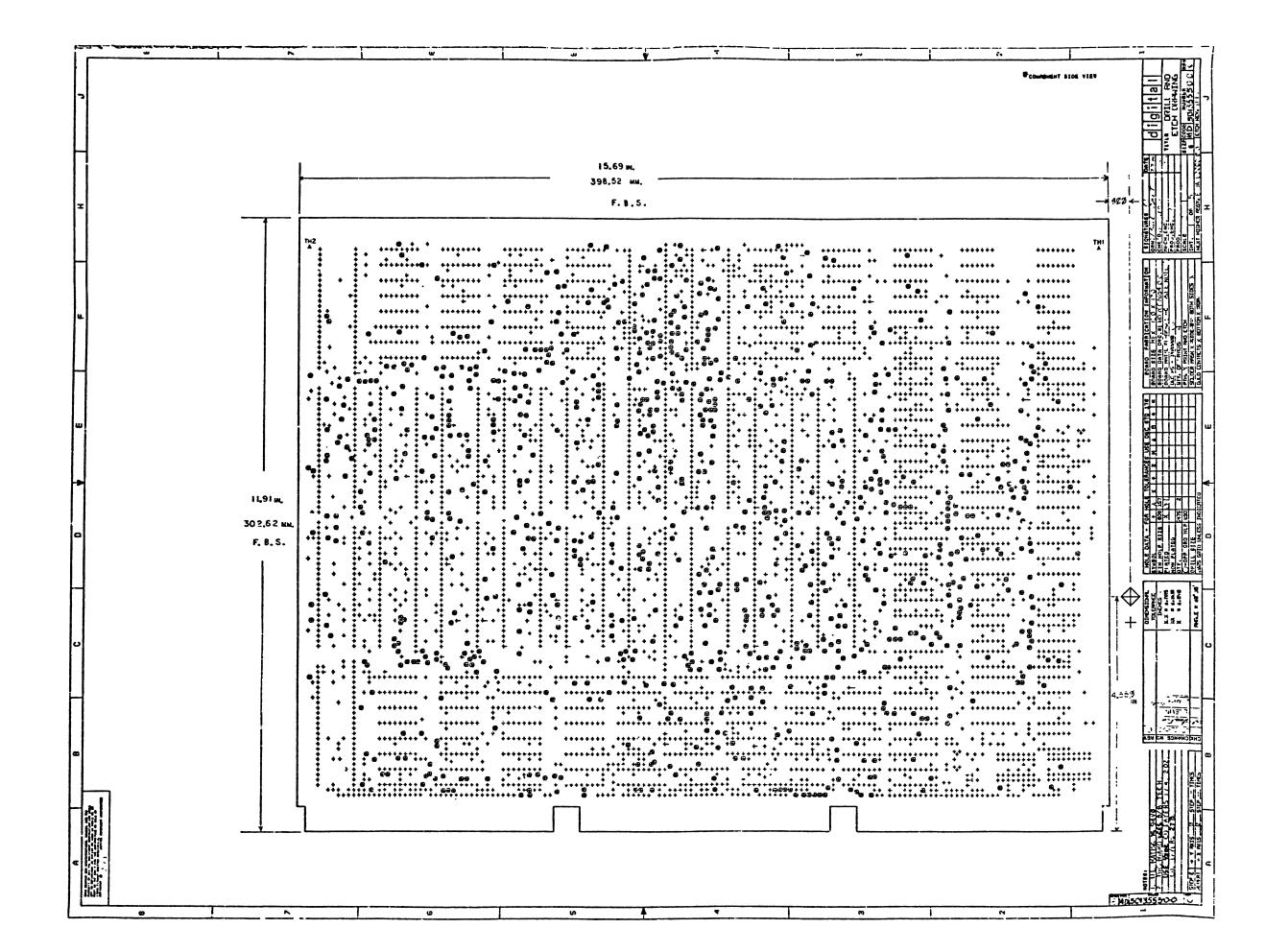
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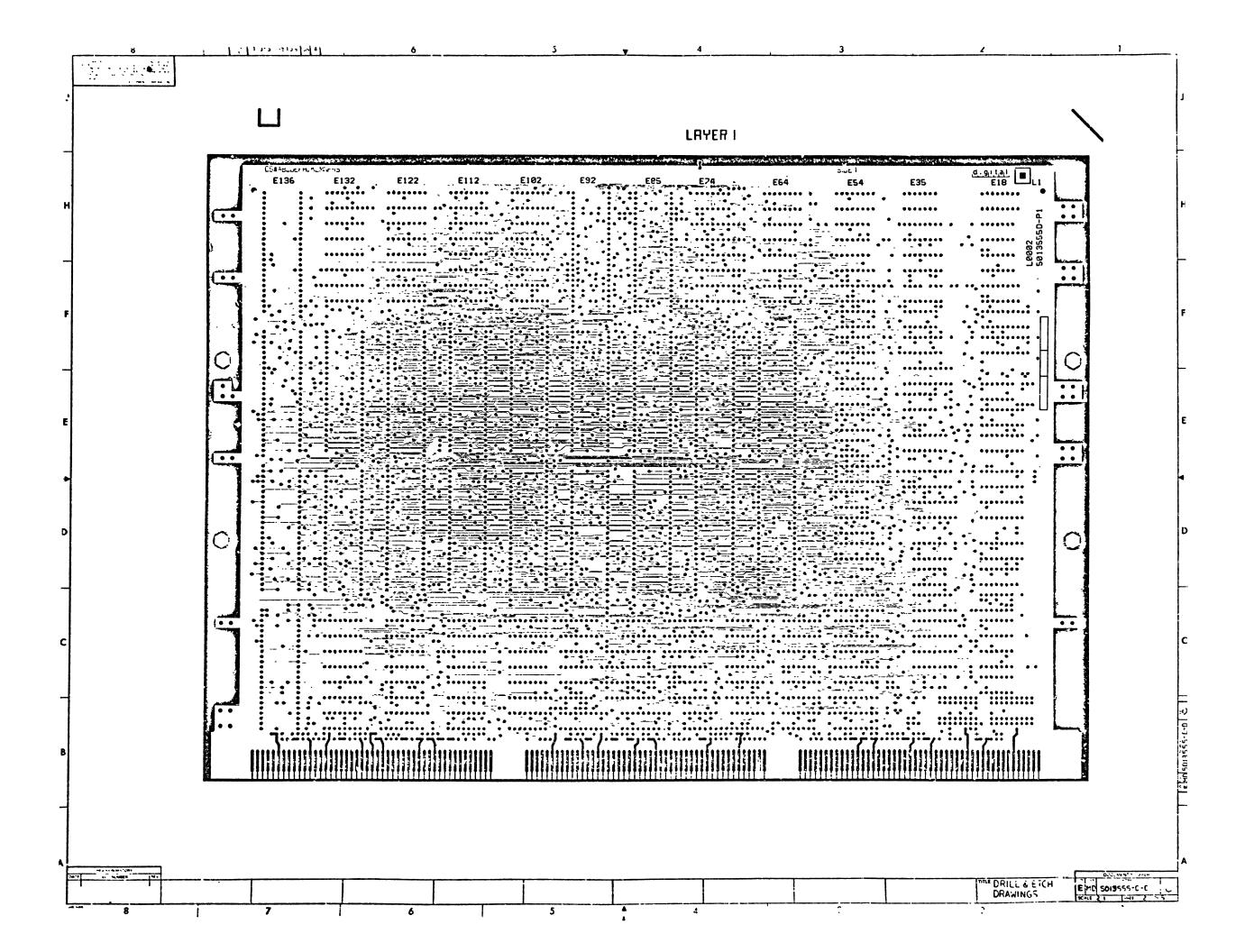


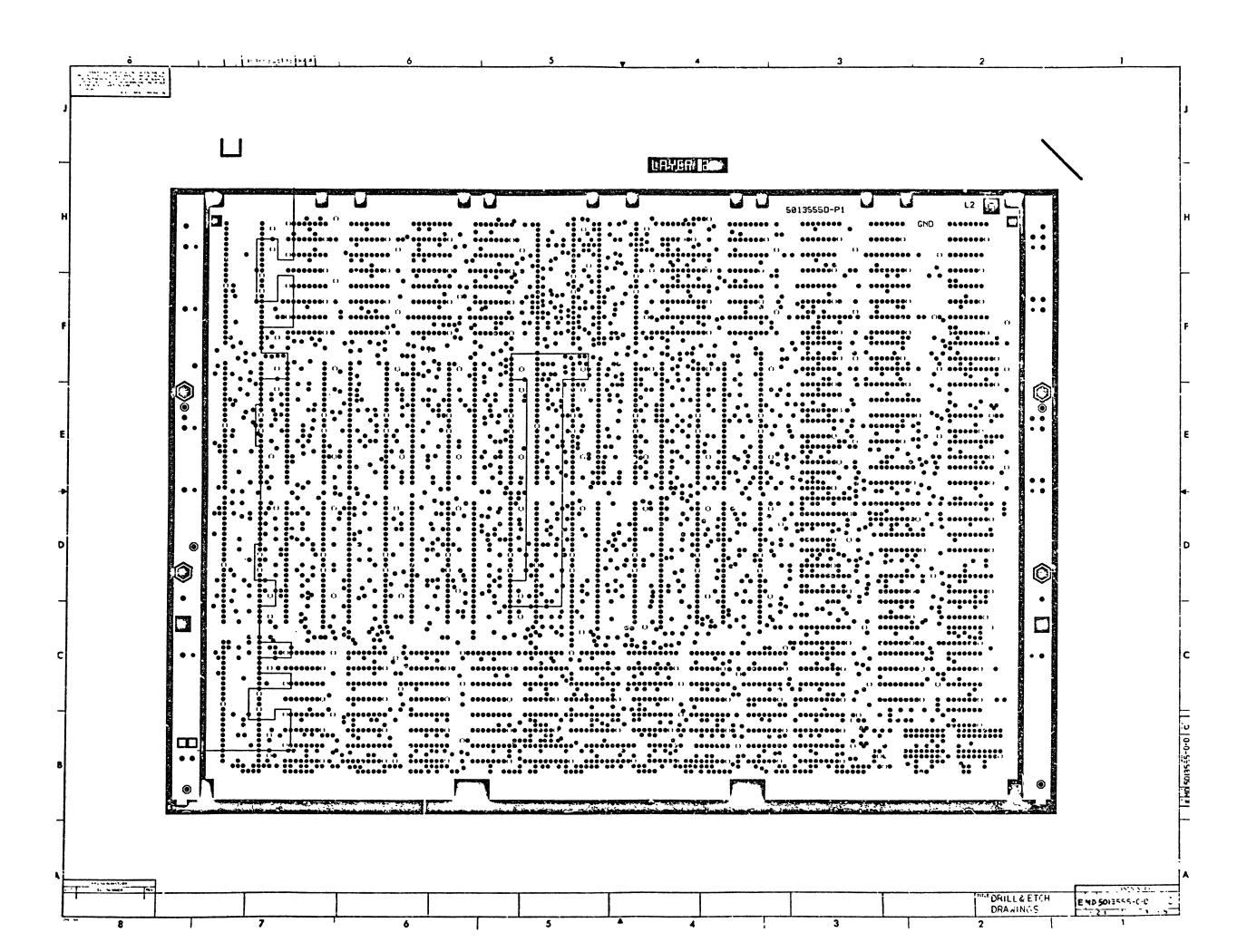


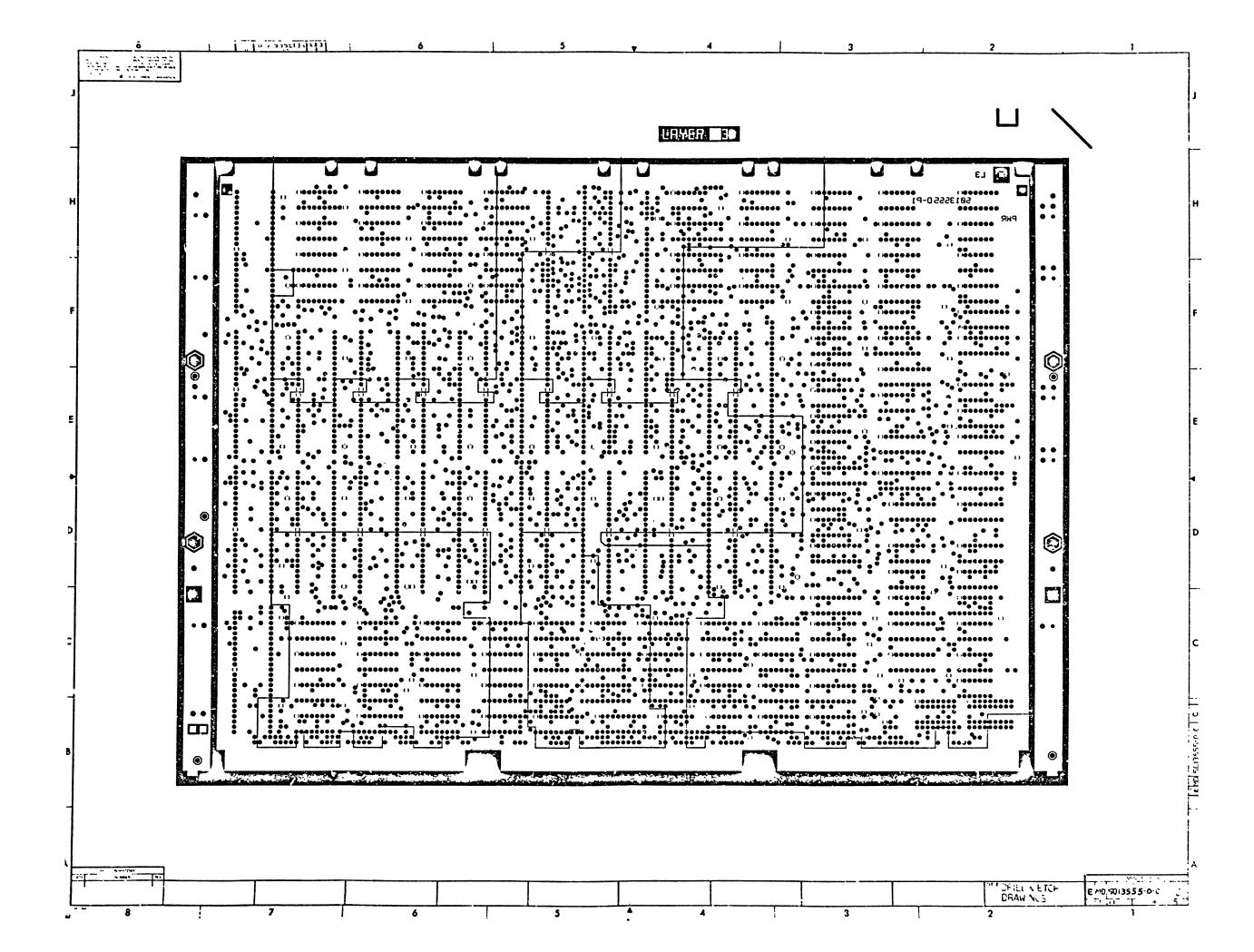
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1	5013555-00 1012084-01 1012784-00 1210711-02 1215924-00	ETCHED CIRCUIT BOARD 8 MFD 25V +75-10% AL EL .047 MFD 50V +80-20% CEP. /REPLACED BY 12-16988-02 SKT,IC 48PIN DIP GOLD FOR	: 79 C1-C74	,082,083,085,086,084
67890112341567890112112341567891222222222222222222222222222222222222	1300365-00 1301890-00 1811660-21 1910532-00 1910533-00 1910535-00 1910536-00 1910549-00 1910545-00 1910547-00 1910548-00 1910552-00 1910956-00	R NETWORK 15-470 5.0 % 16PIN 1.0 K .25 W 5.0 % CC 560.0 .25 W 5.0 % CC *** THIS ITE, IS NOT USED *** 74500 NAND GATE-QUAC 2IN 74503 NAND GATE-QUAD 2IN, 0 74504 INVERTER GATE-HEX 1I 74505 INVERTER GATE-HEX 1 74510 NAND GATE-DUAL 4INPU 74520 NAND GATE-DUAL 4INPU 74522 NAND GATE-DUAL 4INPU 74524 FF-D DUAL, FDGE TRIGG 745112 FF-JK DUAL, FDGE TRIGG 745153 MUX 1 OF 4 (DUAL) 745157 MUX 1 OF 2 (QUAD) 745194 SHIFT REG., 4BIT RIGH 745151 MUX 1 OF 8	5 E17, E24 E42, E45, E68 E5, E49, E62 E32, E64 E33, E64	E60, XE69-XE70, XE83-XE85, E92, XE97, XE108, XE118, XE127, XE128, XE136 4, E31, E52, E35 , E55, E57 , E63, E75 2, E33, E46, E54, E66, E67, E76, E68, E68, E67, E78, E88, E88, E88, E88, E88, E88, E8
23 23 24 24 25 25 26 26	1911573-00 1911675-00 1912389-00 1912586-00 D	745280 PARITY GEN/CHKR,9BIT 745138 DECODER/DEMUX 3-8 LIN 74508 AND GATE-QUAD 2IN,PO M 85568N REGISTER,64BIT EDGE	5 1 849 1 1 243 1 236-E39	2,E33,E46,E54,E66,E67,E76, ,E28,E47,E74,E82,E87,E88
ENG! ECO NUMBER REV SECTION	FART NO: LOOD2 ON A OF A ON.VARIATION INDEX OD	+ DRN: D.SIREEN DAT CHK'D: E.T. GERRY DAT DES.ENG: D. LI RESP.ENG:: D. LI MFG.ENG:: VANCE PARKER DAT ASSEMBLY NUMBER: E-UA-LOGO2-O-O B-DI	E: 19-0CT-79 C:	I G I T A L PARTS LIST CCUMENT NUMBER NUMBER LOCO2-0-DBP FILE NAME: Z1257D.FLS 19
"THIS DRAWING AND SPECIFIC OR COPIED OR USED IN WHOL	ATIONS HEREIN, ARI E OR IN PART AS TI COPYRIGH	E THE PROPERTY OF DIGITAL EQUIPM HE BASIS FOR THE MANUFACTURE OR T (C) 1982. DIGITAL EQUIPMENT CO	ENT CORPORATION AND SHALL SALE OF ITEMS WITHOUT WRI RPORATION "	NOT BE REPRODUCED TTEN PERMISSION.

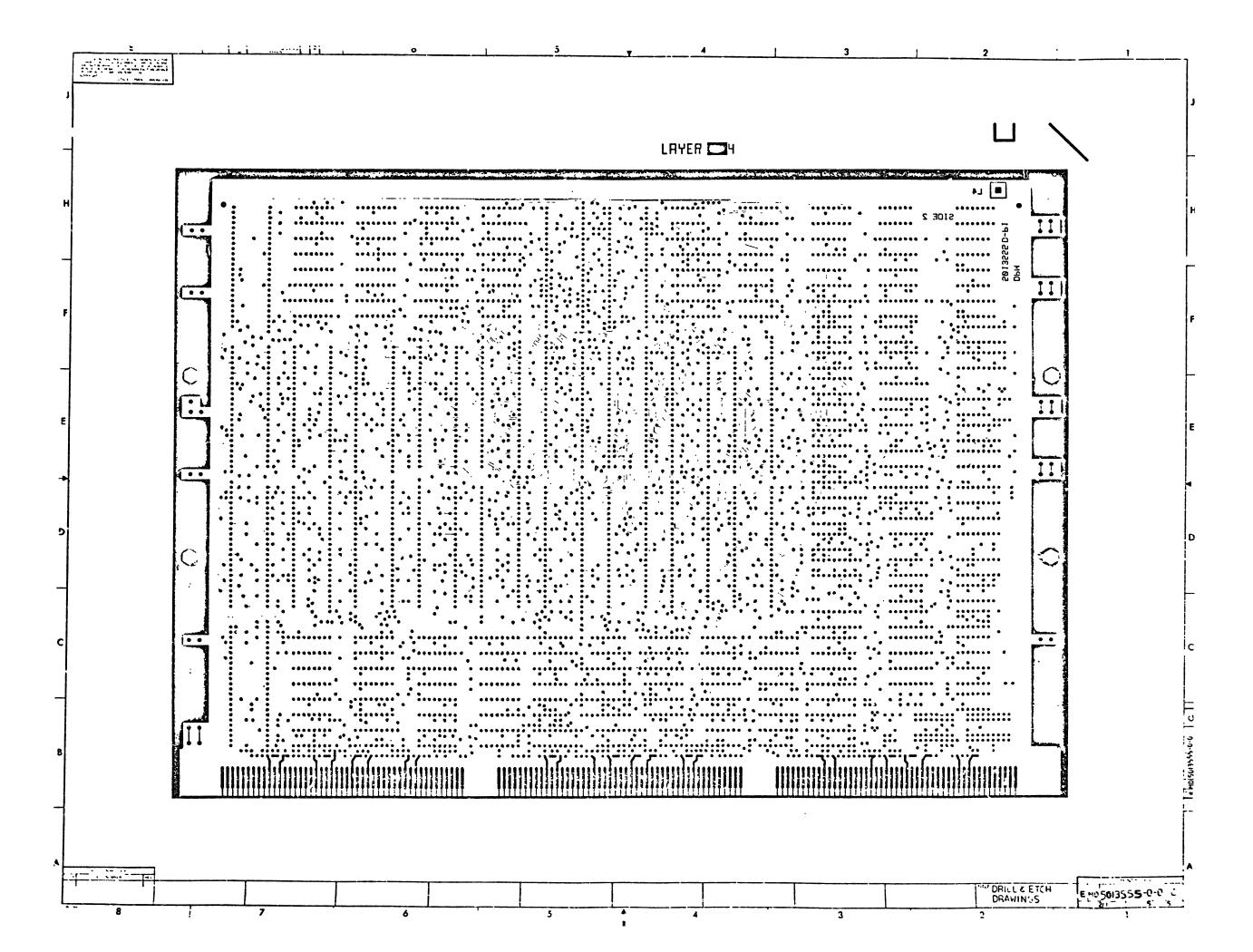
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27 27 28 28 29 29 30 30 31 31 32 33 34 34 35 35 36 36	1912661-00 1912746-00 1913462-00 1913493-00 1913671-00 1913839-00 1914085-00 1914214-00	74S189 MEMORY READ/WRITE DEC 74S37 NAND GATE-QUAD 2IN 74S240 OCTAL BUFFER, INVERTI 74S241 OCTAL BUFFER, TRI-STA 74S374 FF-D OCTAL TRISTATE LS165 SHIFT REG., 8BIT 74S260 NOR GATE-DUAL, POS LS374 FF-D OCTAL EDGE TRIG DC 620A BIPOLAR, LS, 400-GATE DC 608B BIPOLAR, LS, 400-GATE	32 CONT 1 1 9 2	E93-E96,E99-E106,E109-E116, E119-E126,E129-E132 E53,E65 E40 E41 E14,E26,E29,E44,E79-E81,E86 E50,E58
	1914682-00	LS374 FF-D OCTAL EDGE TRIG DC 620A BIPOLAR, LS, 400-GATE DC 608B BIPOLAR, LS, 400-GATE DC 510B BIPOLAR, LS, 400-GATE DC 612B BIPOLAR, LS, 400-GATE	5 1 8 CONT 1	E13,E71-E73,E78 E92 E97,E98,E107,E108,E117,E118, E127,E128 E70 E91
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57890 66239:56 66239:56 665 665 665 665 665 665 665 665 665	23027F2-00 9000024-01 1302379-00 1503121-00 1912398-00 1215006-03 1215935-00 1215935-00 1305125-00 9009185-00	EYELET, ROLLED 0.1210DX0.192 75.0 .25 W 5.0 % CC 2N 2369 NPN 350MW SI N 74502 NOR GATE-QUAD 2IN, PO SKT, IC 18PIN DIP TIN SOLD GASKET, THERMAL .50"X.80" HEAT SINK, 2.200X.585 383.0 .25 W 1.0 % RN55D-F10 JUMPER, WIRE, INSULATED, BLACK B	1273192211	R5-R9,R11,R15 02,03,Q4 E2 XE7-XE11,XE20,XE21,XE25,XE27 R12 W1
D I G I T A L	TLE D.P.M.	TEAD OF 10-12084-01 SECTION A	OF A SIZE	CODE DOCUMENT NUMBER REV

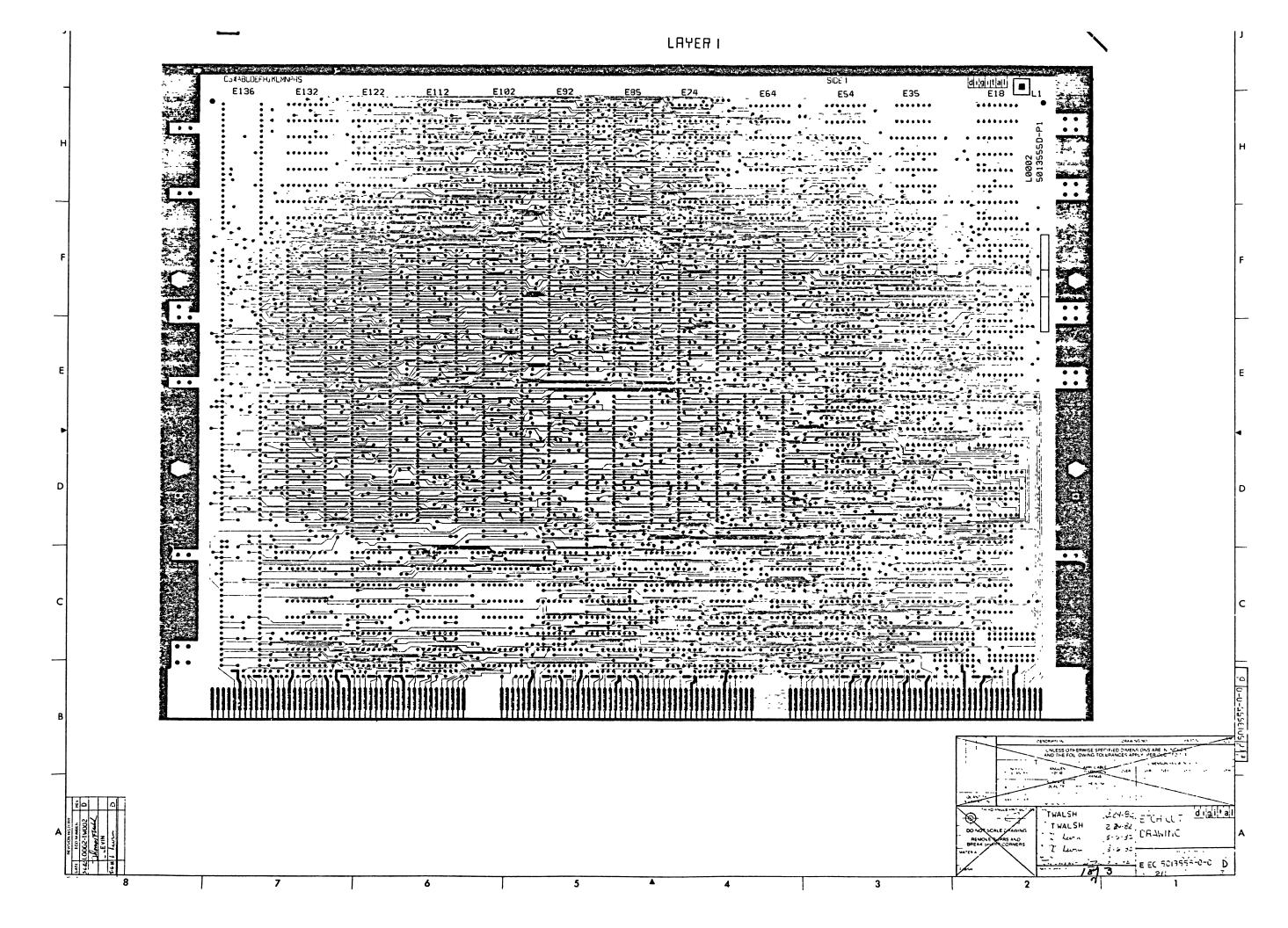


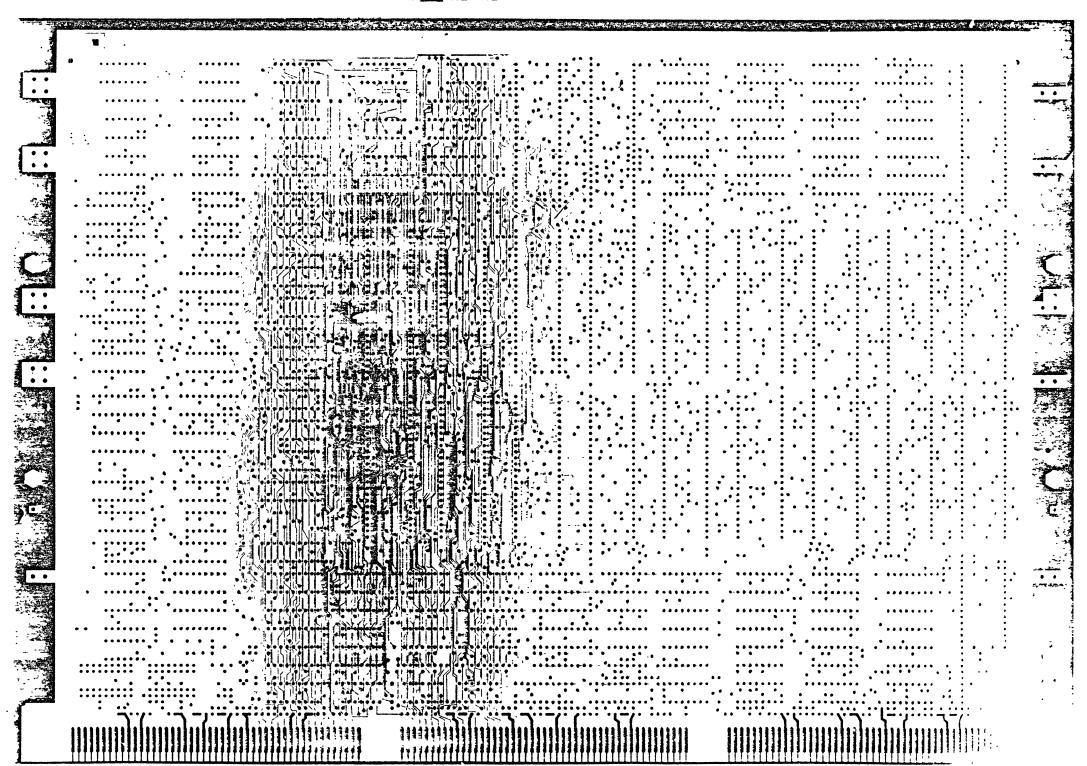


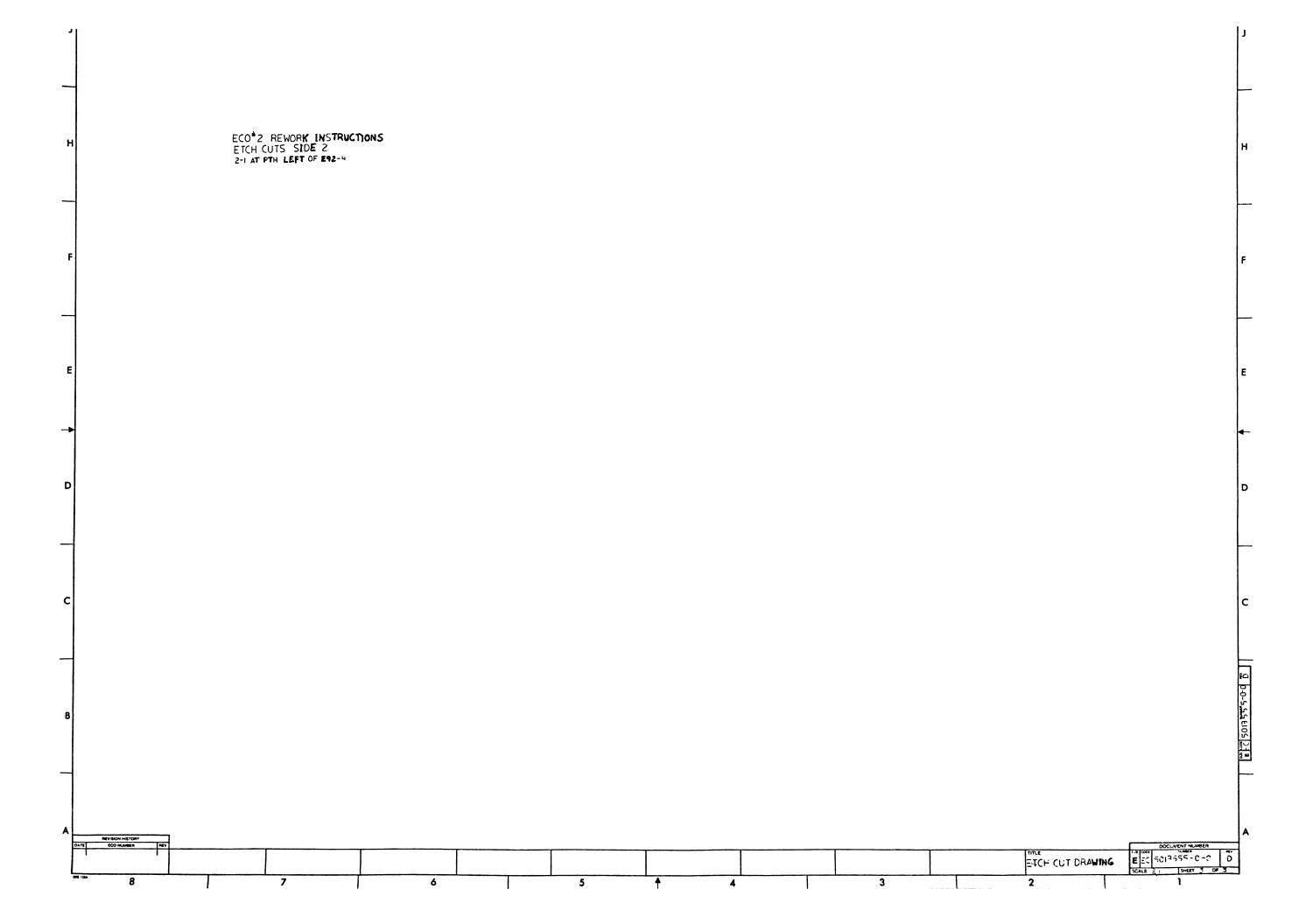


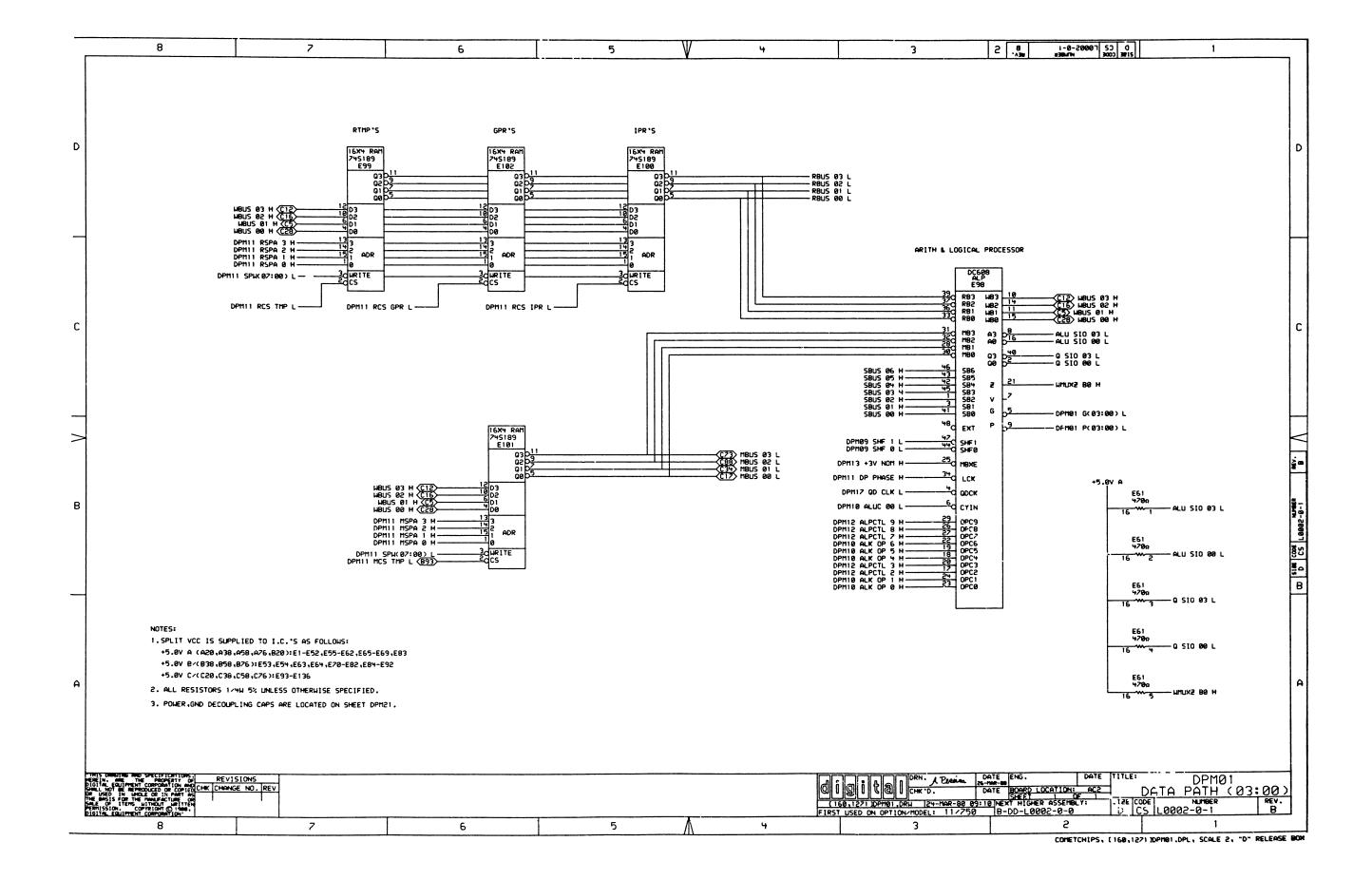


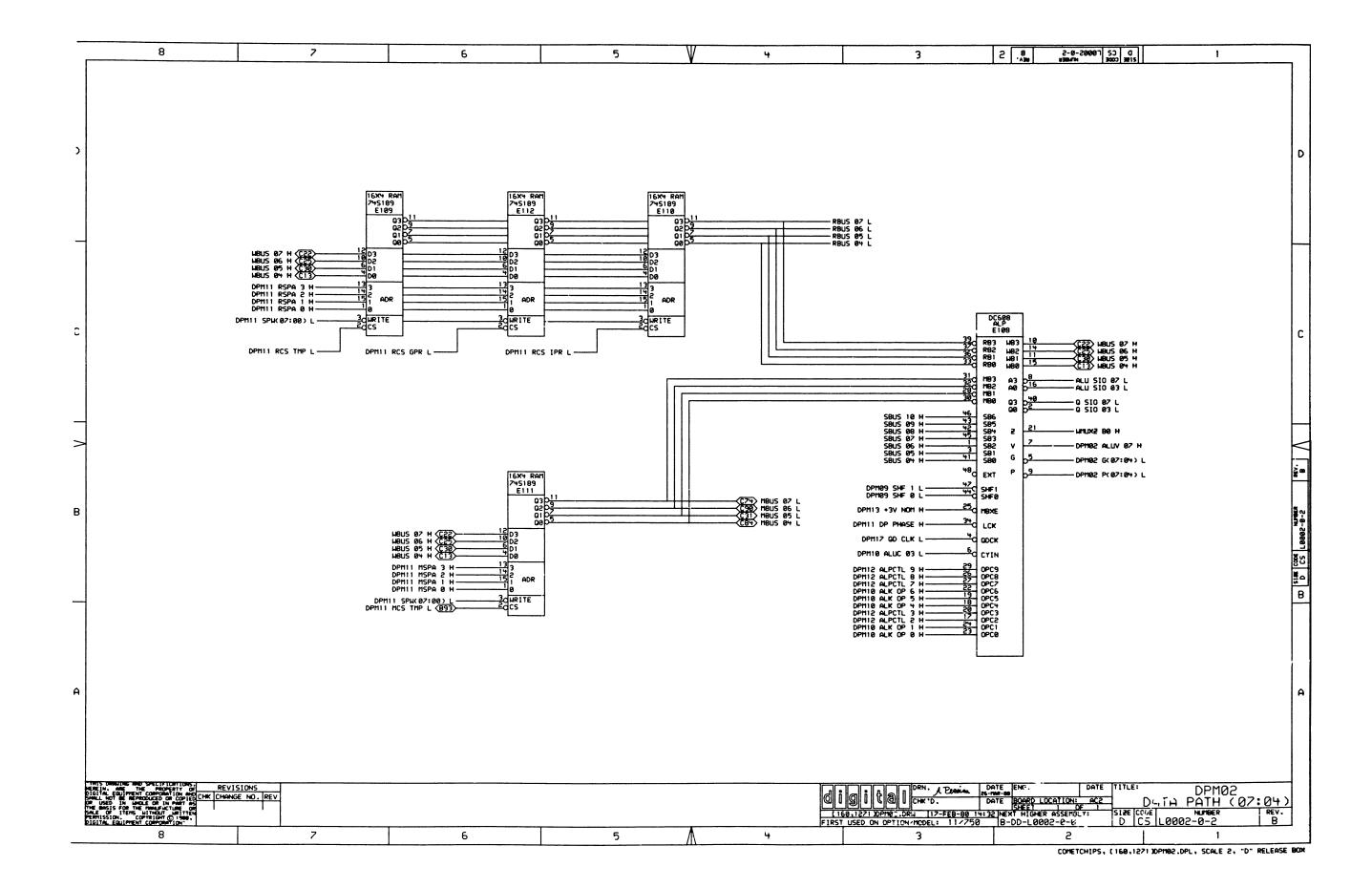


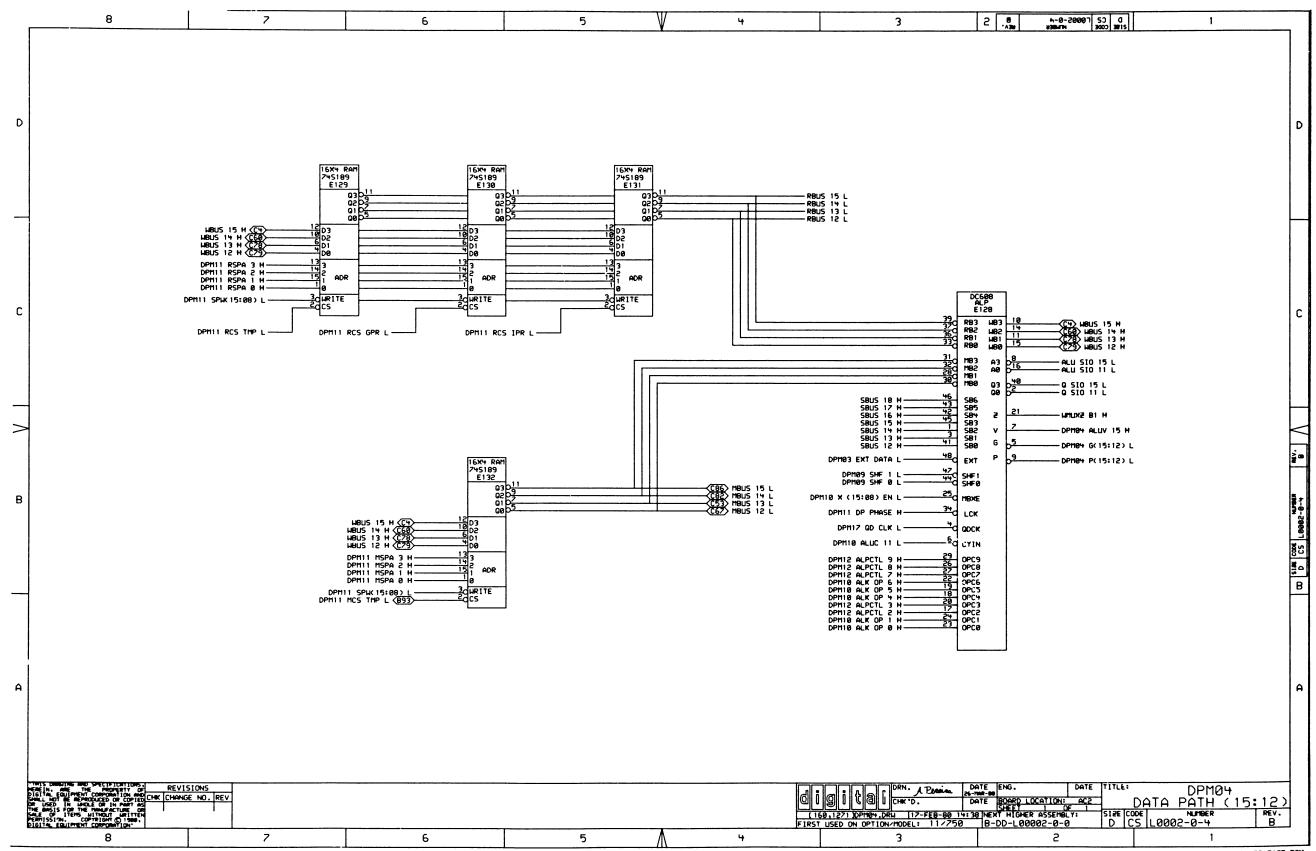


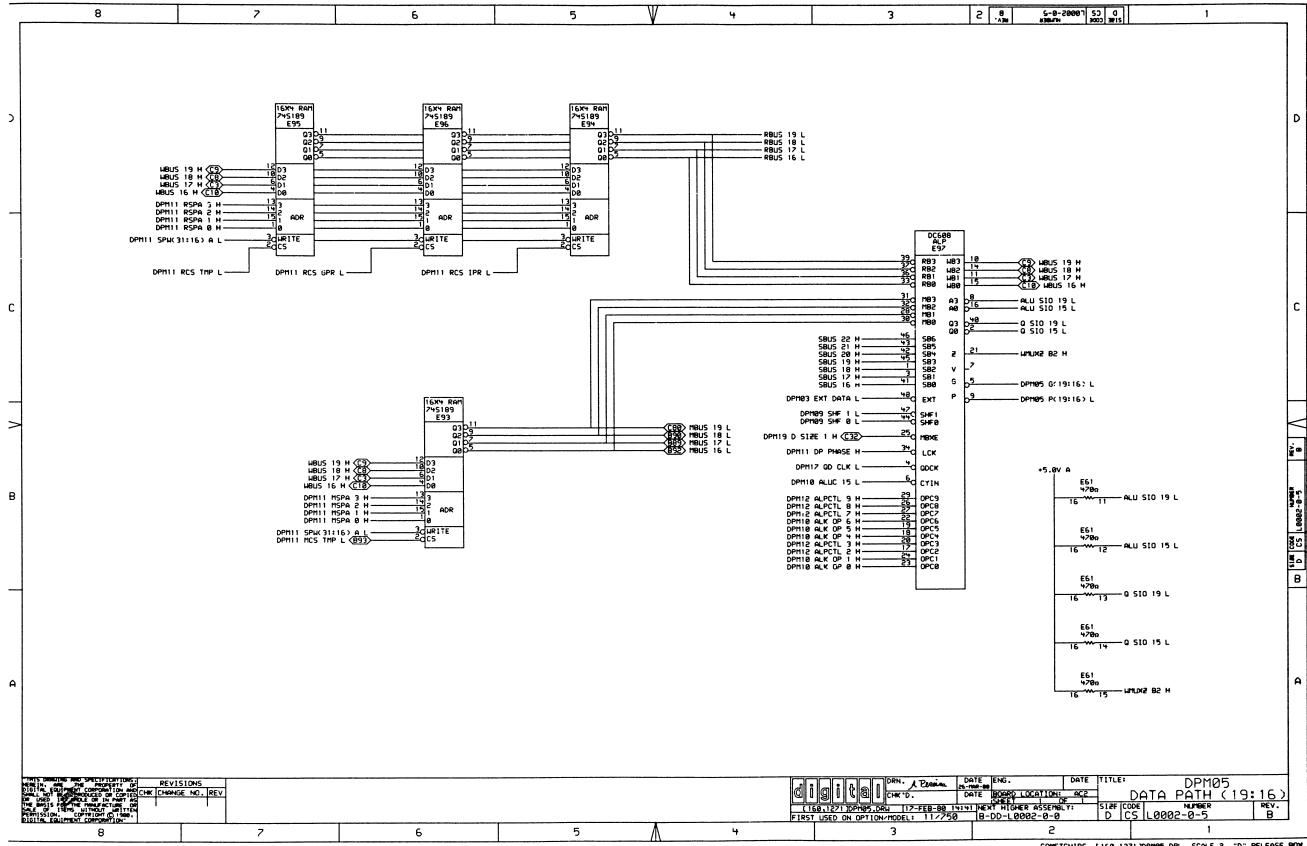


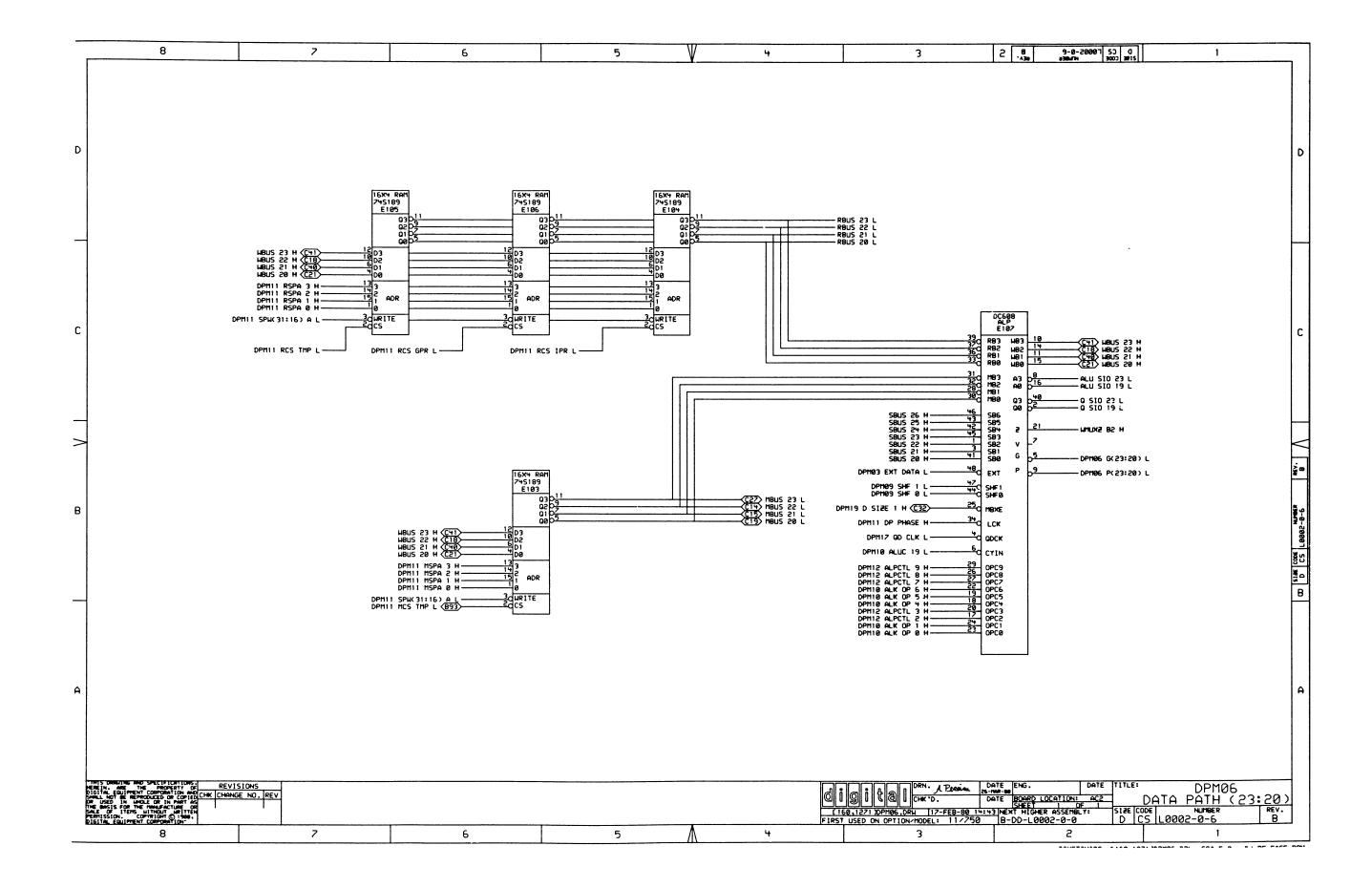


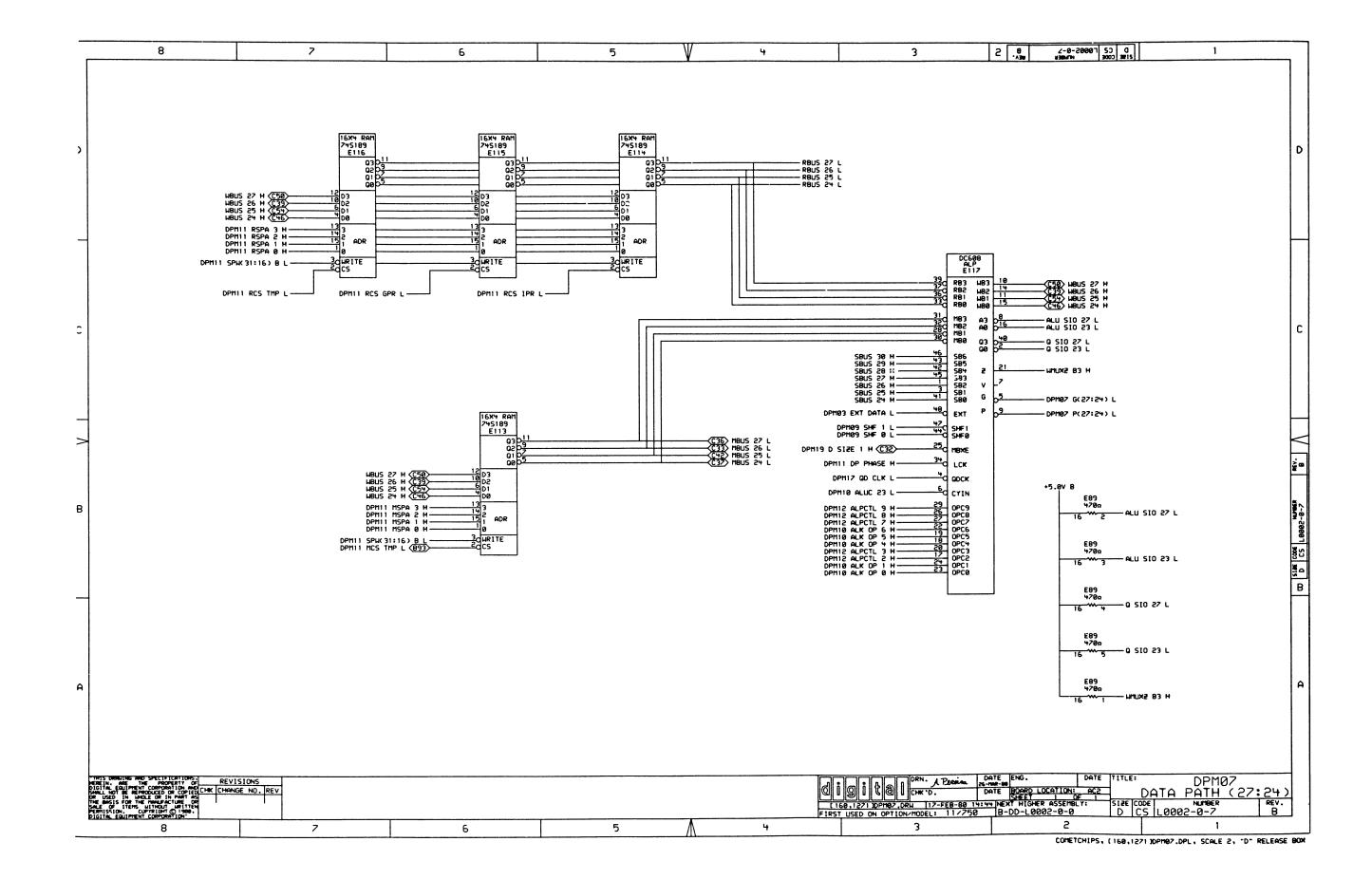


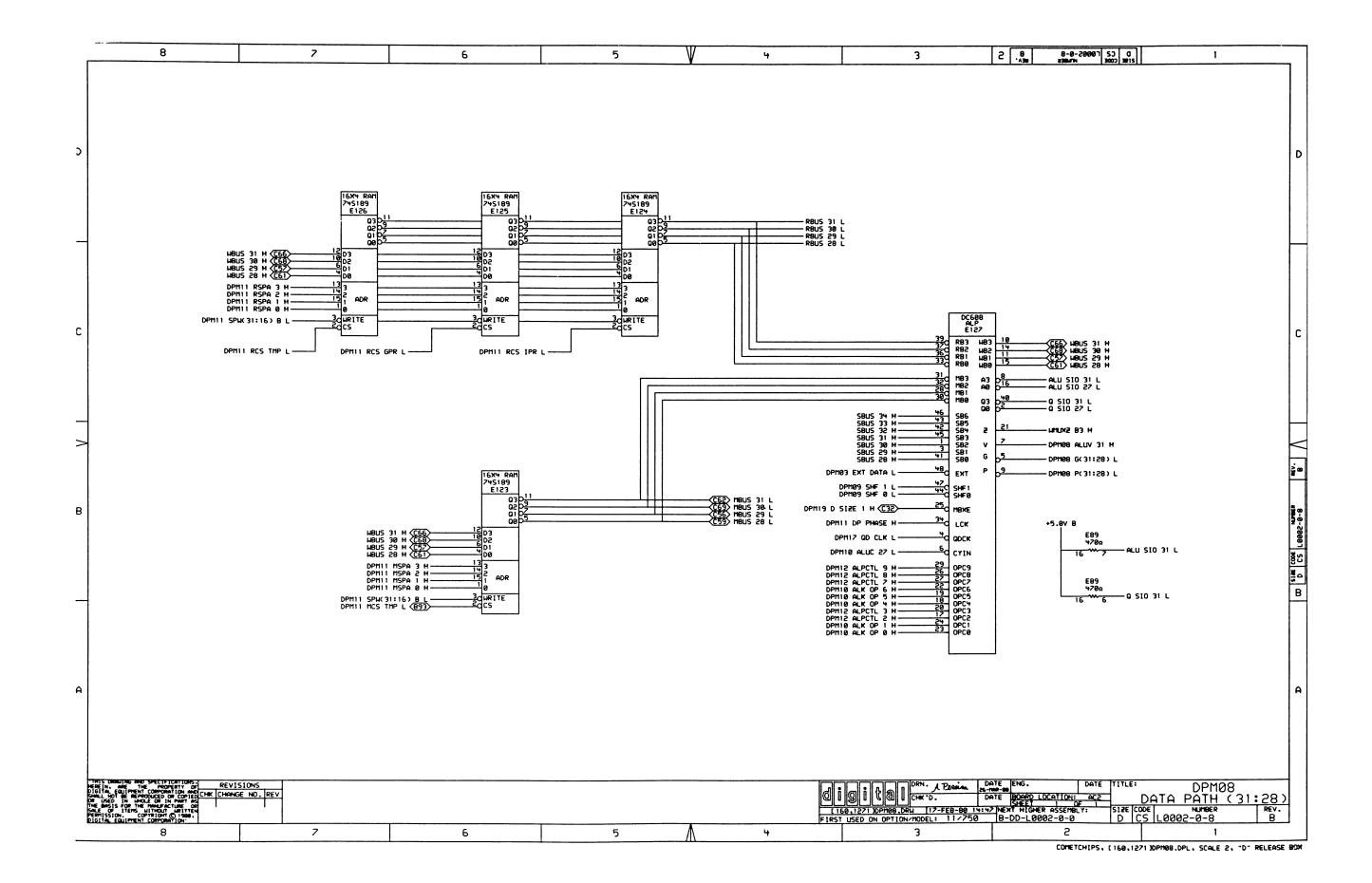


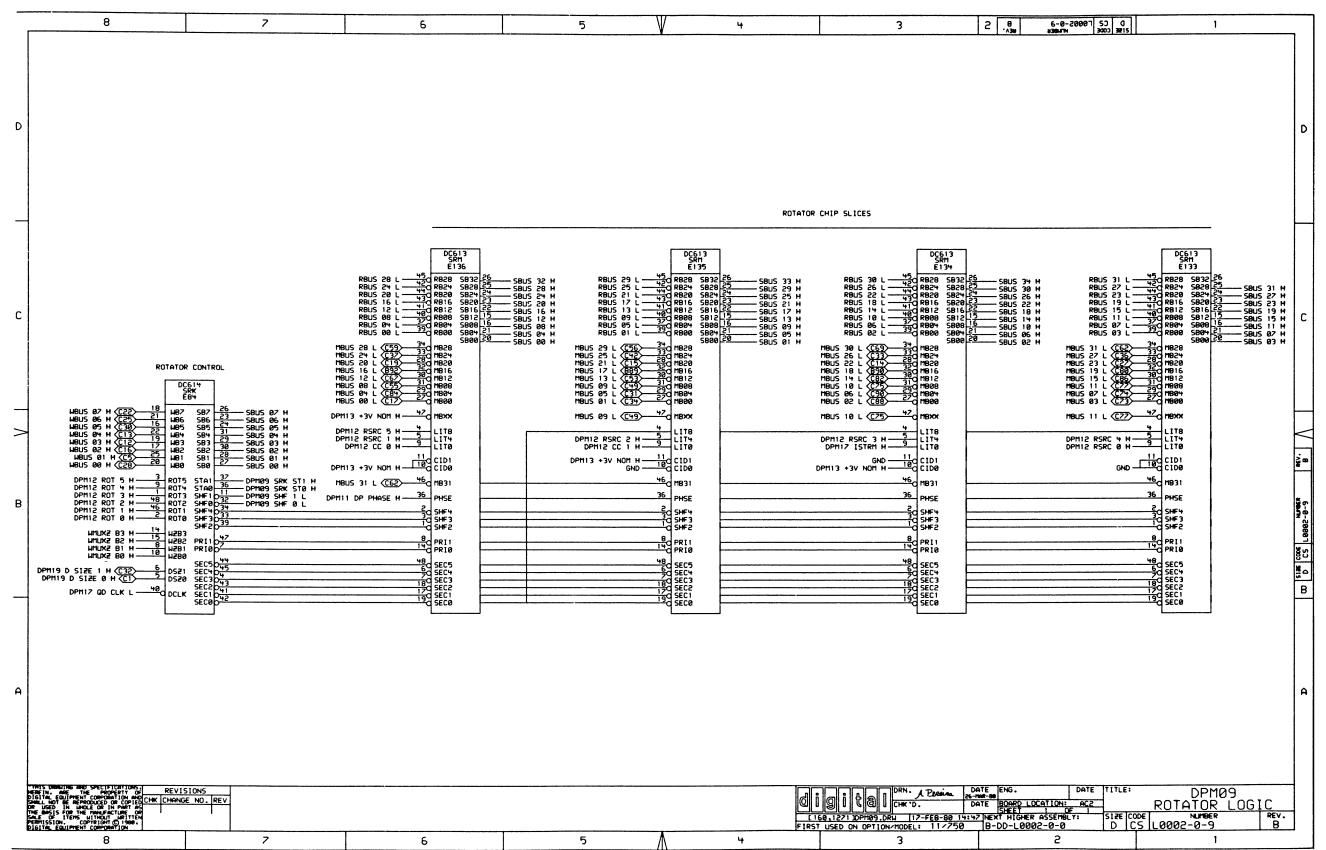


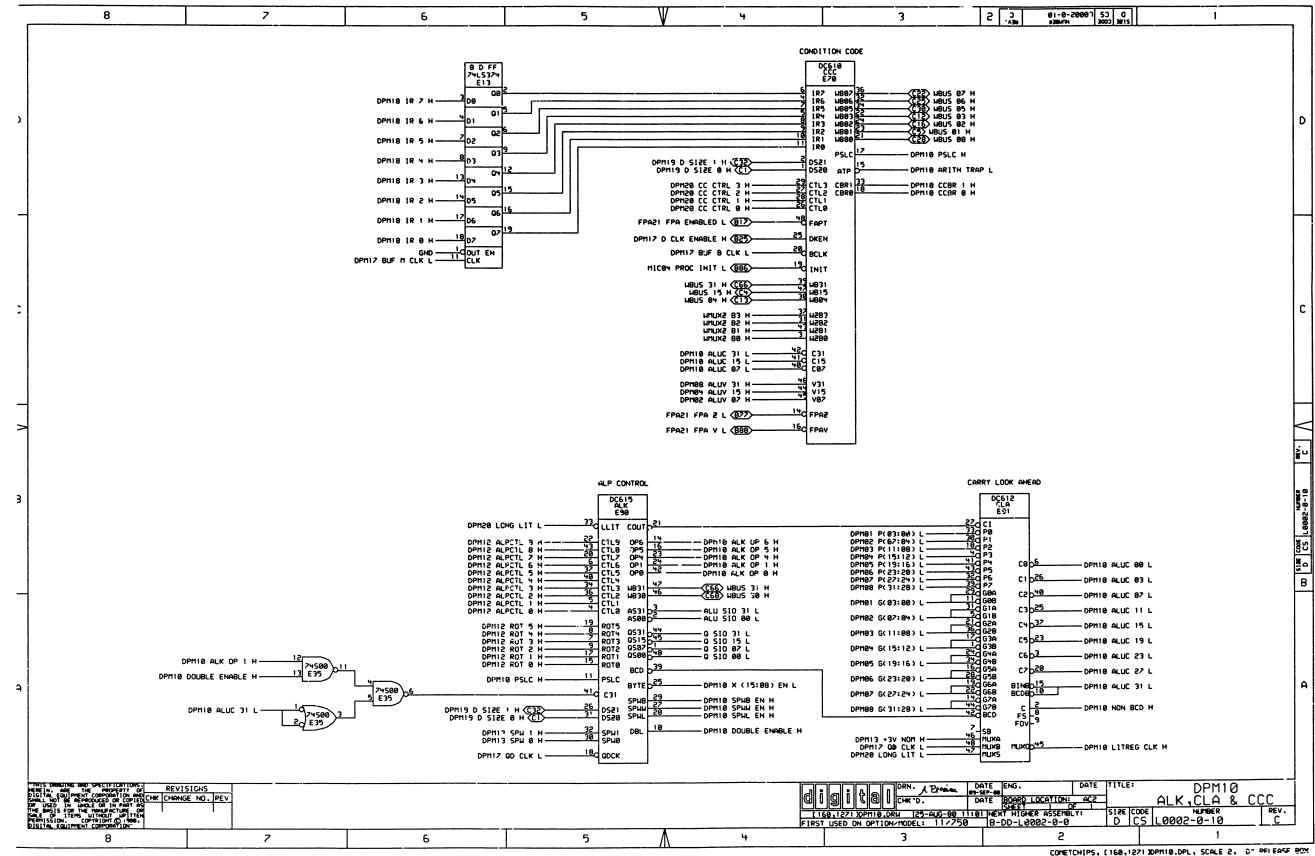


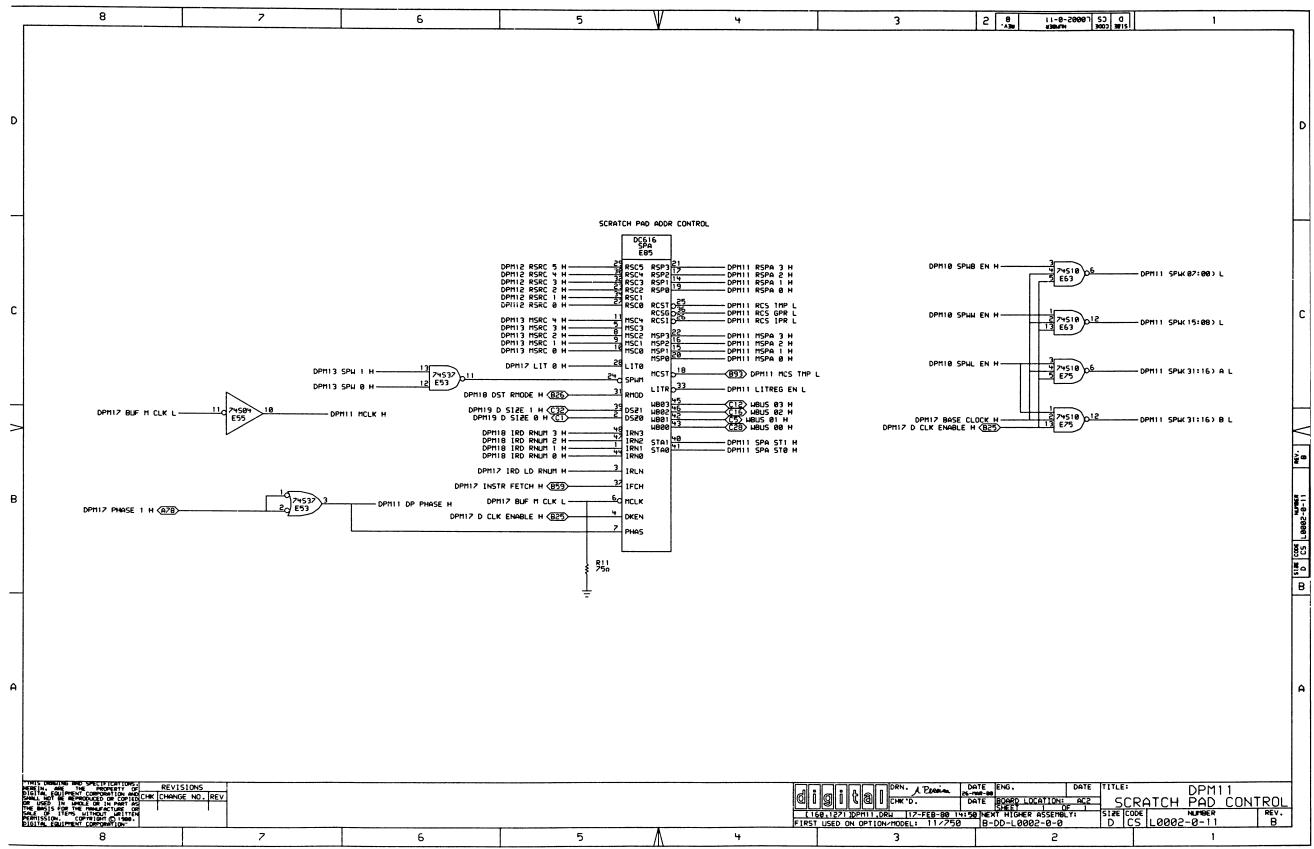


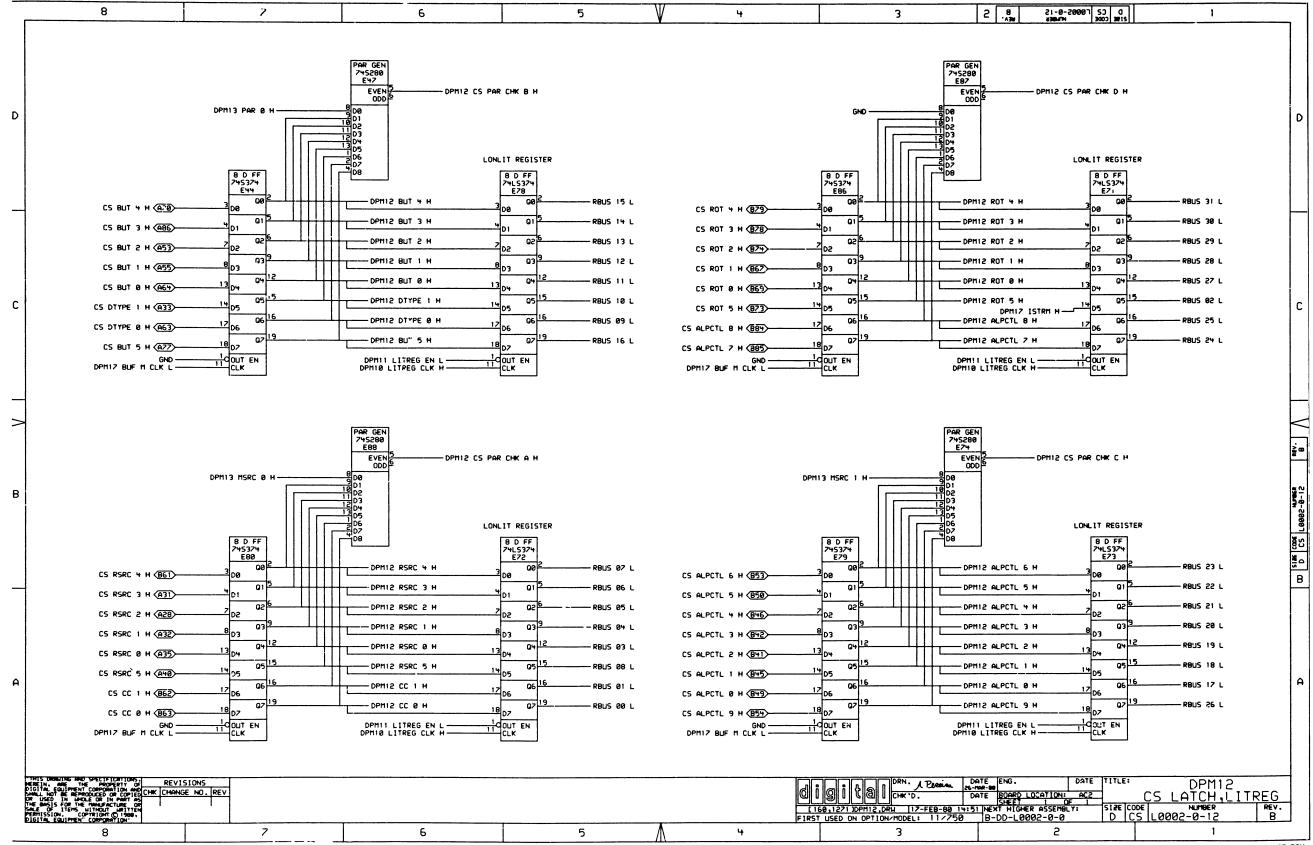


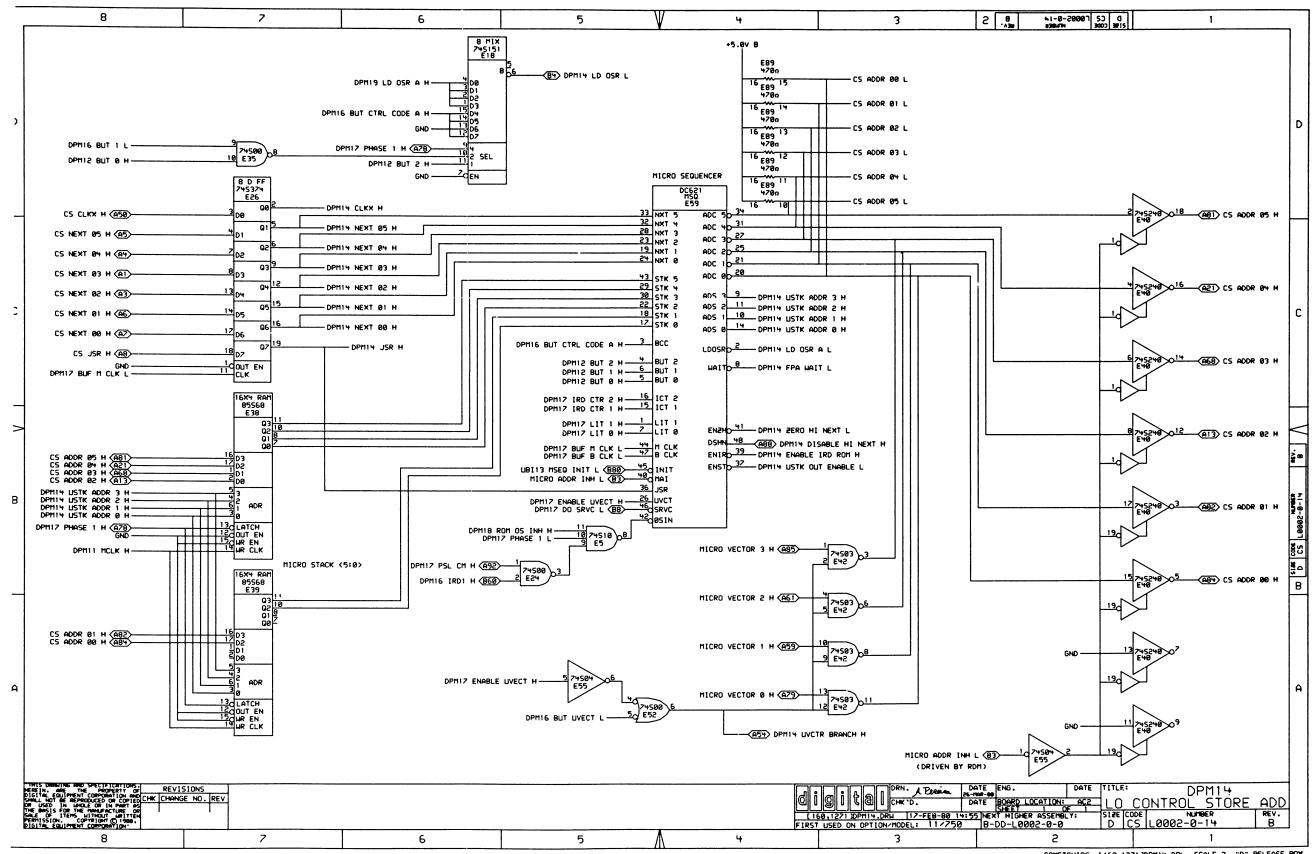


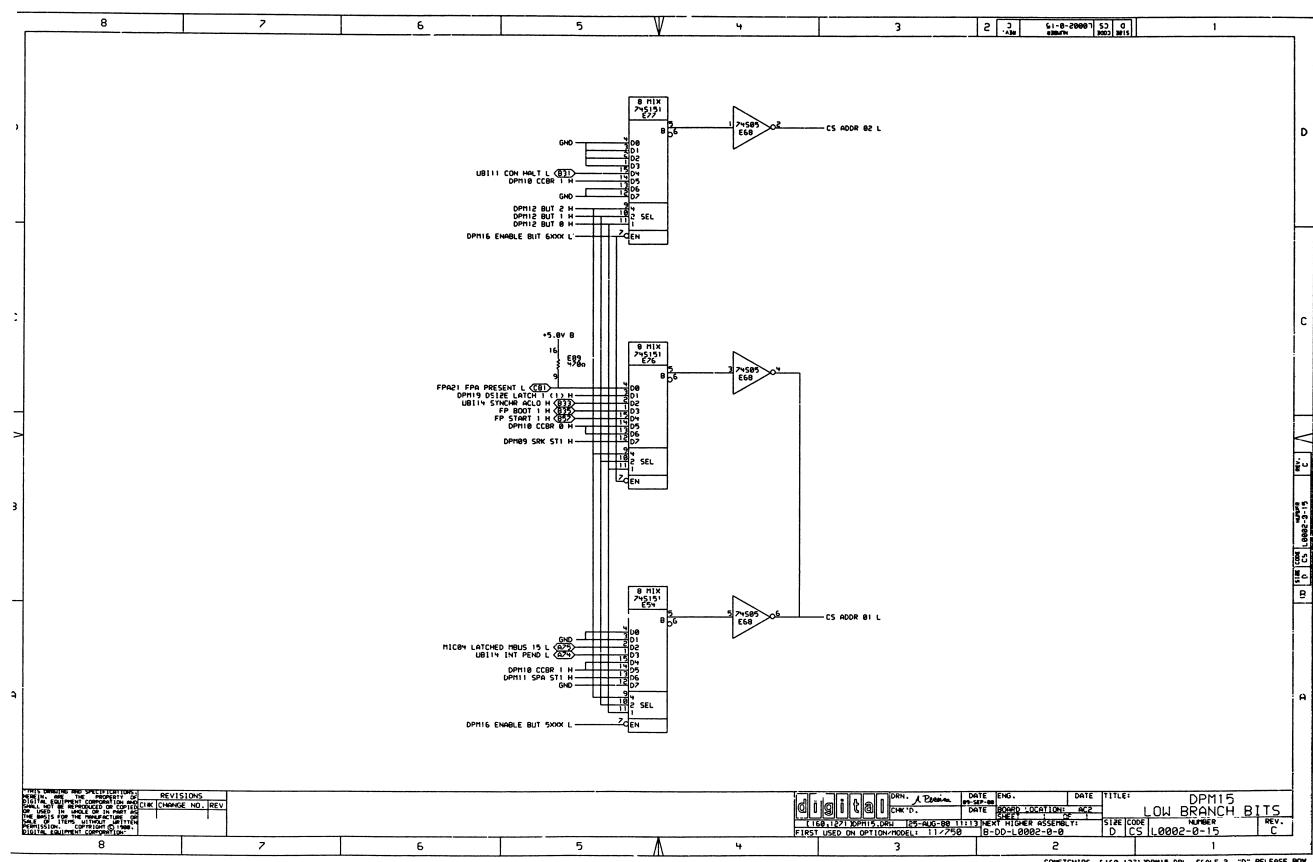


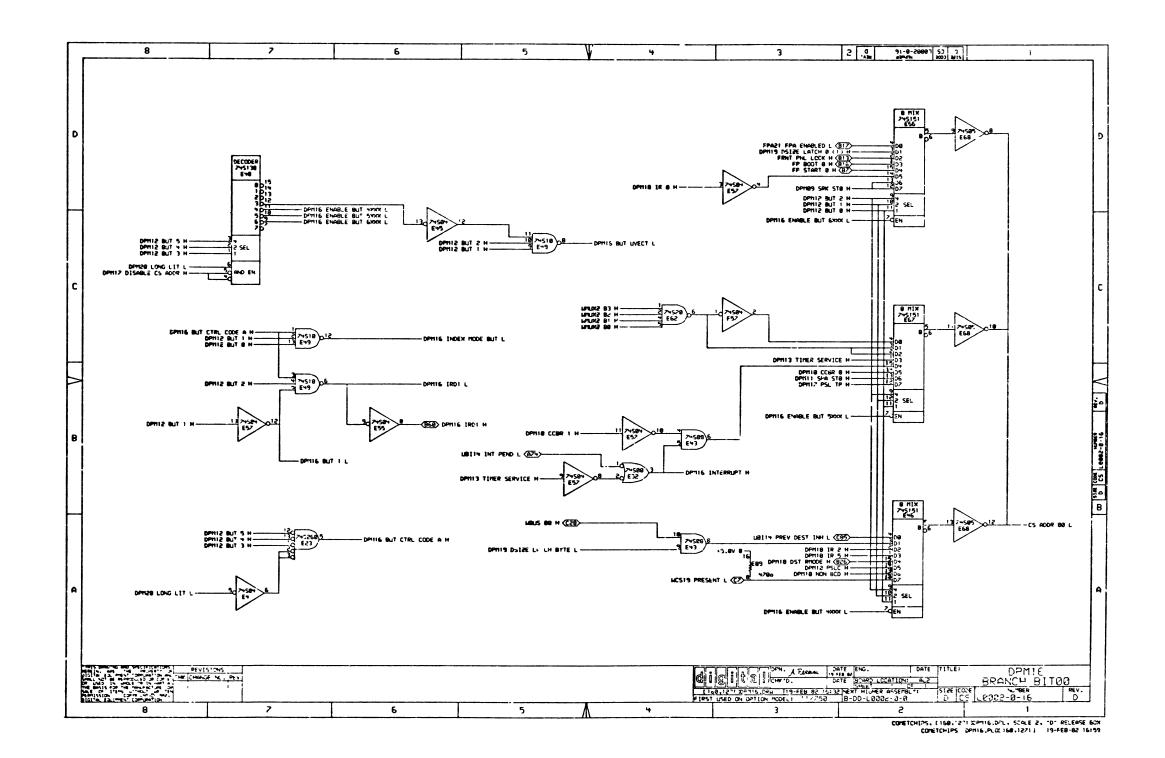


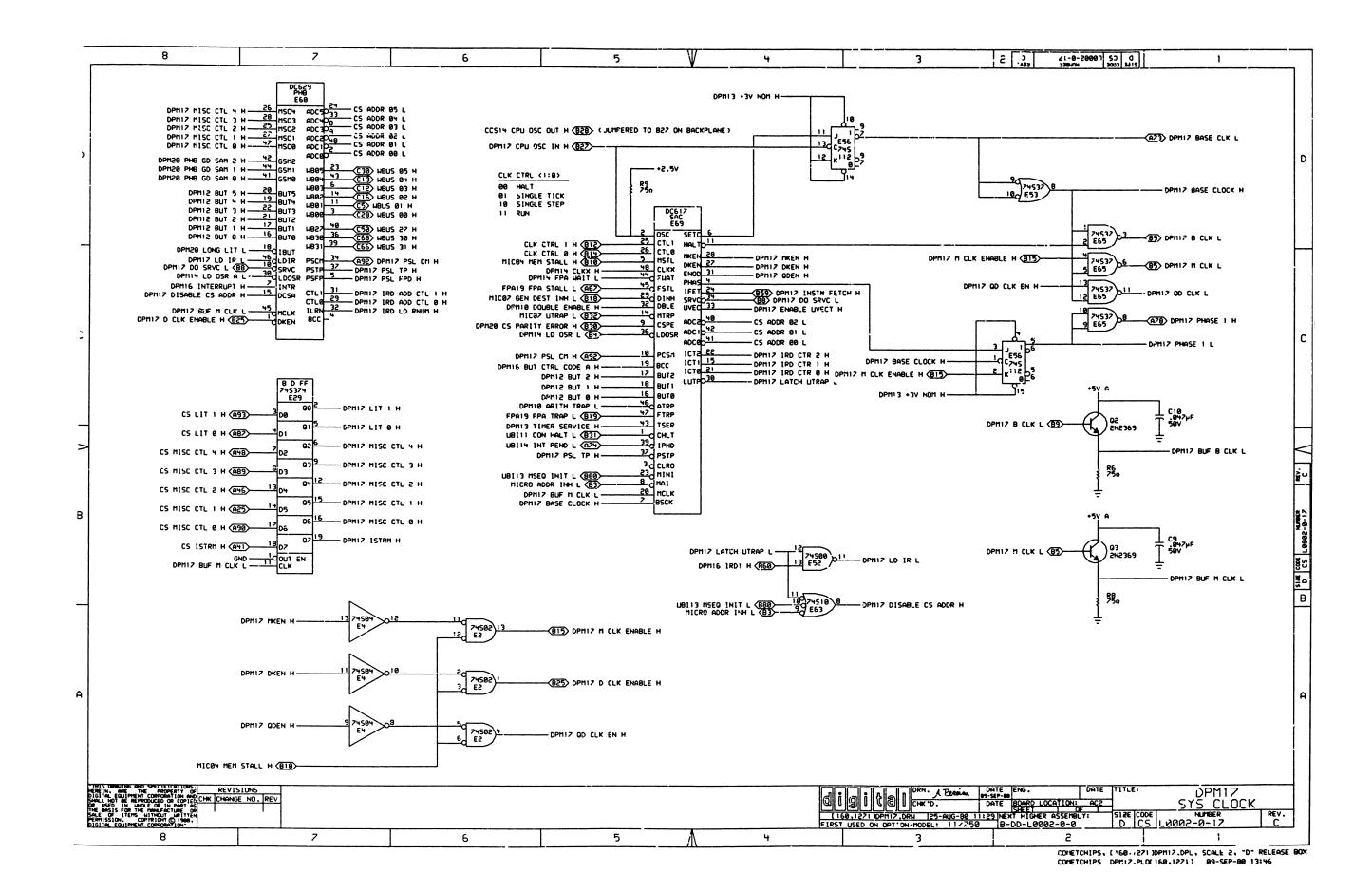


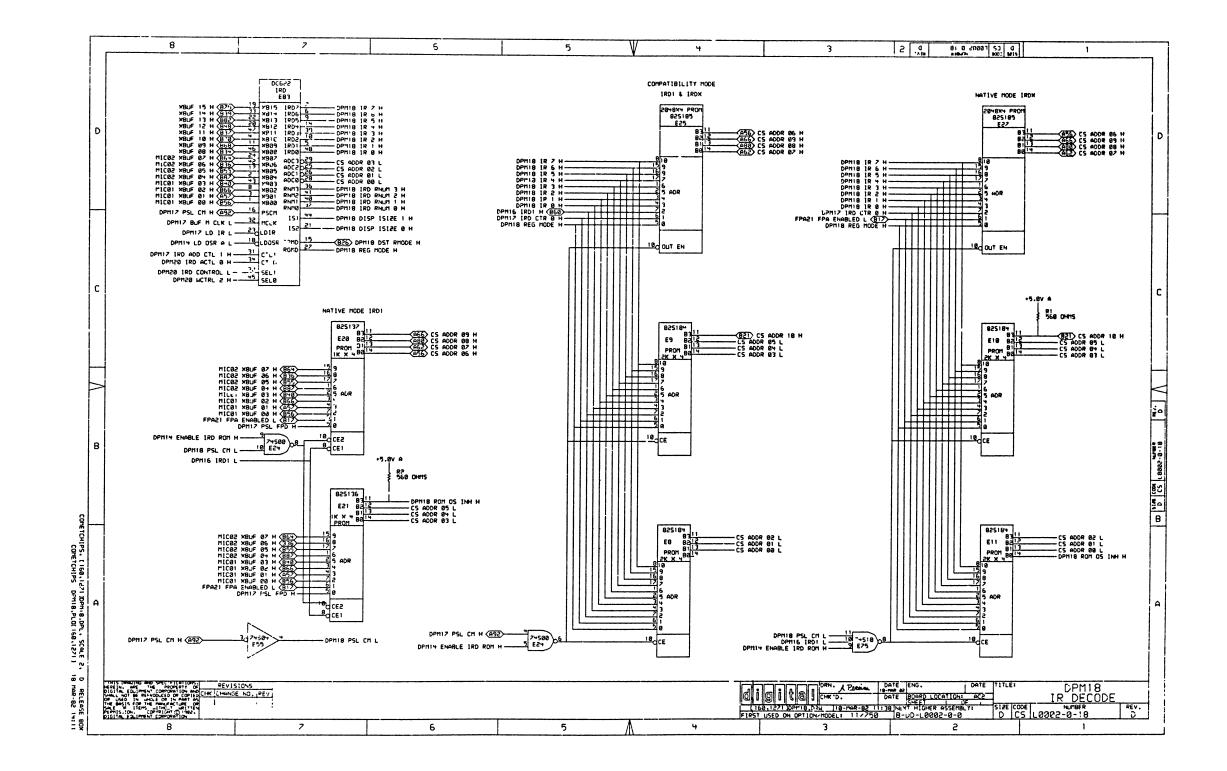


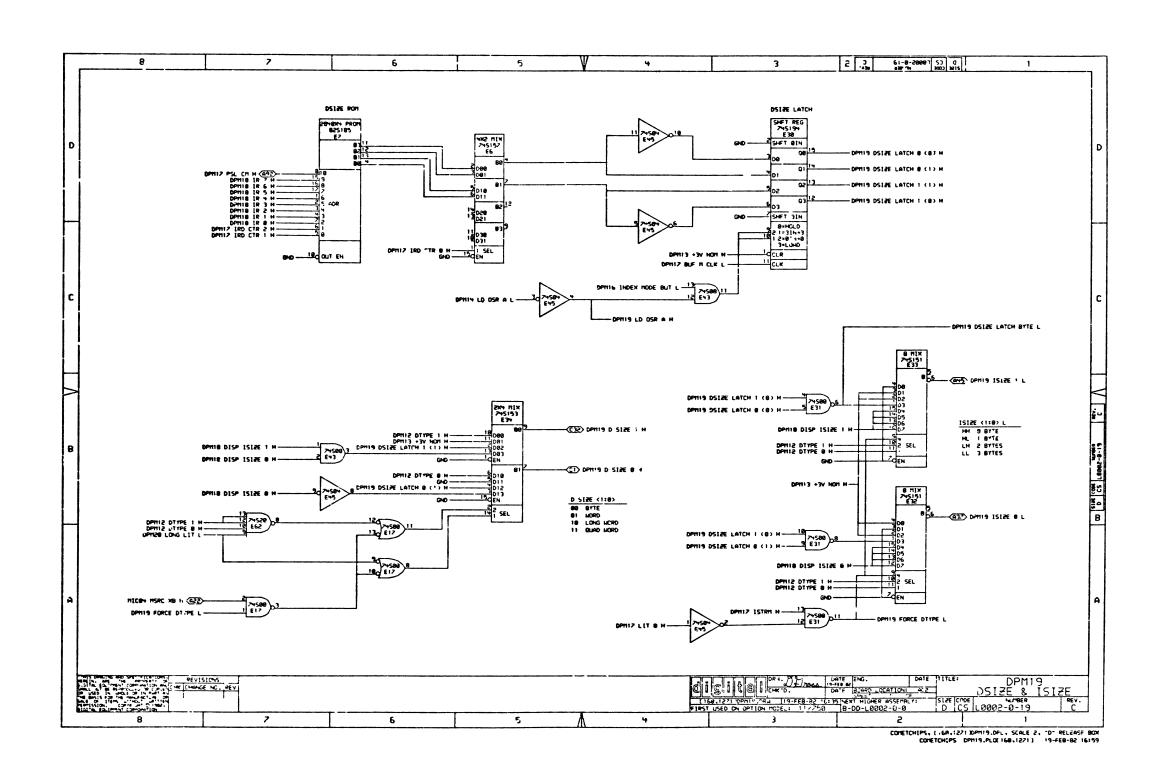


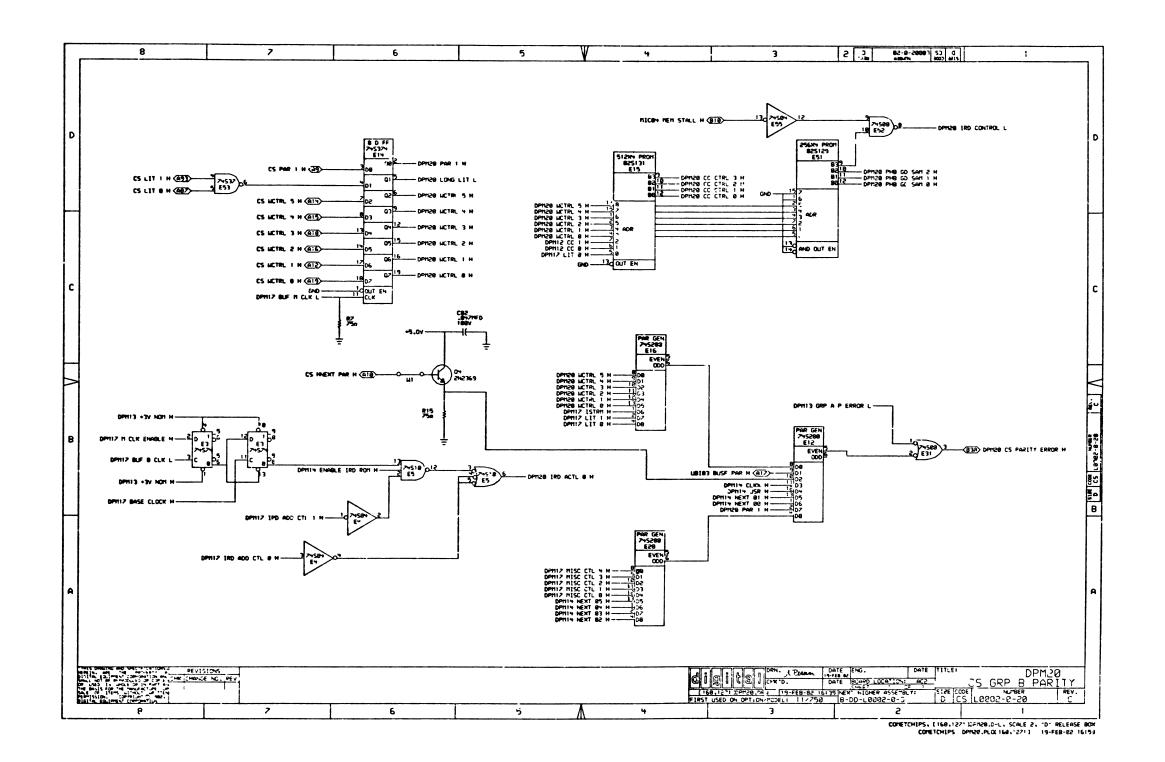


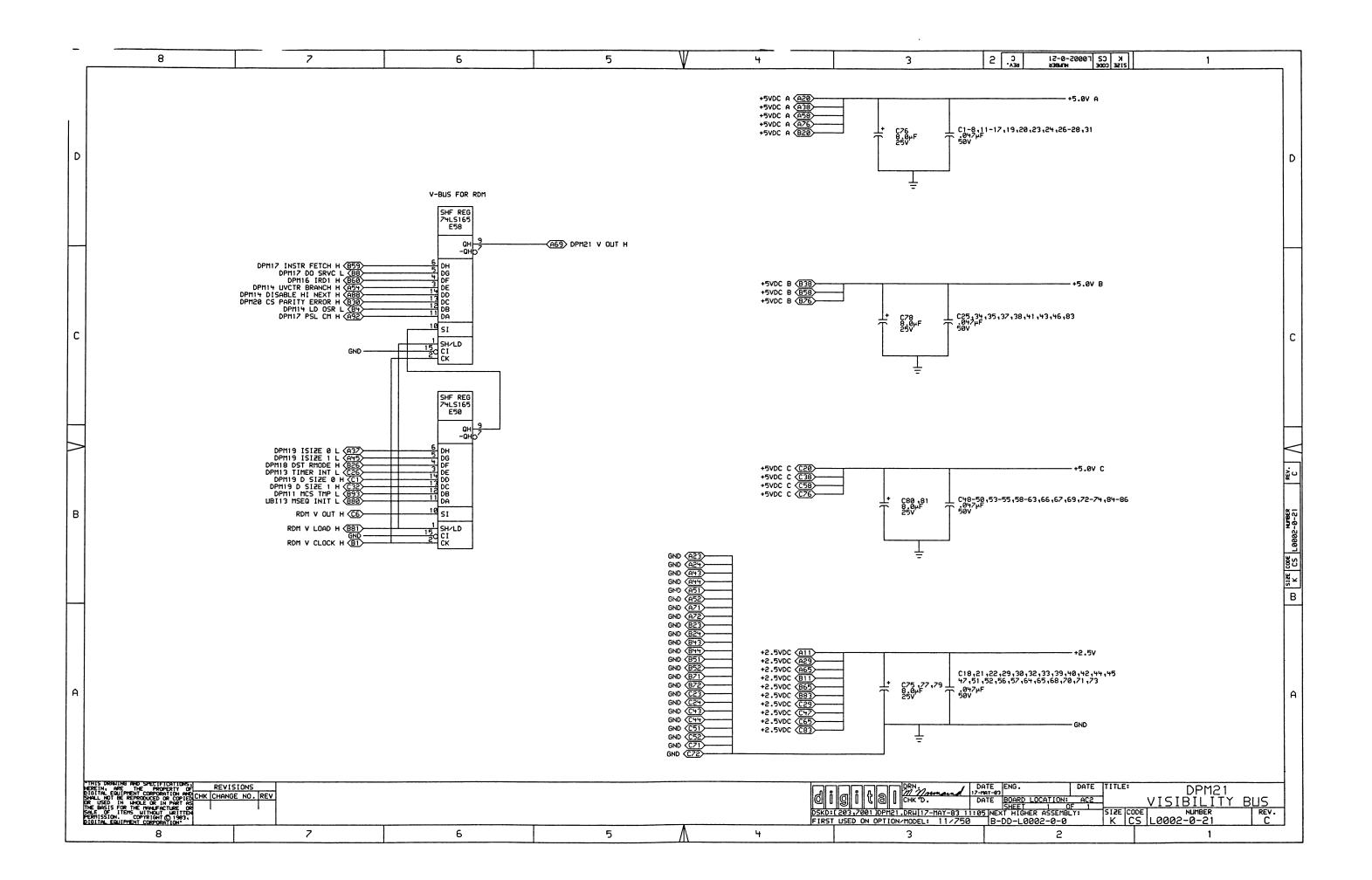










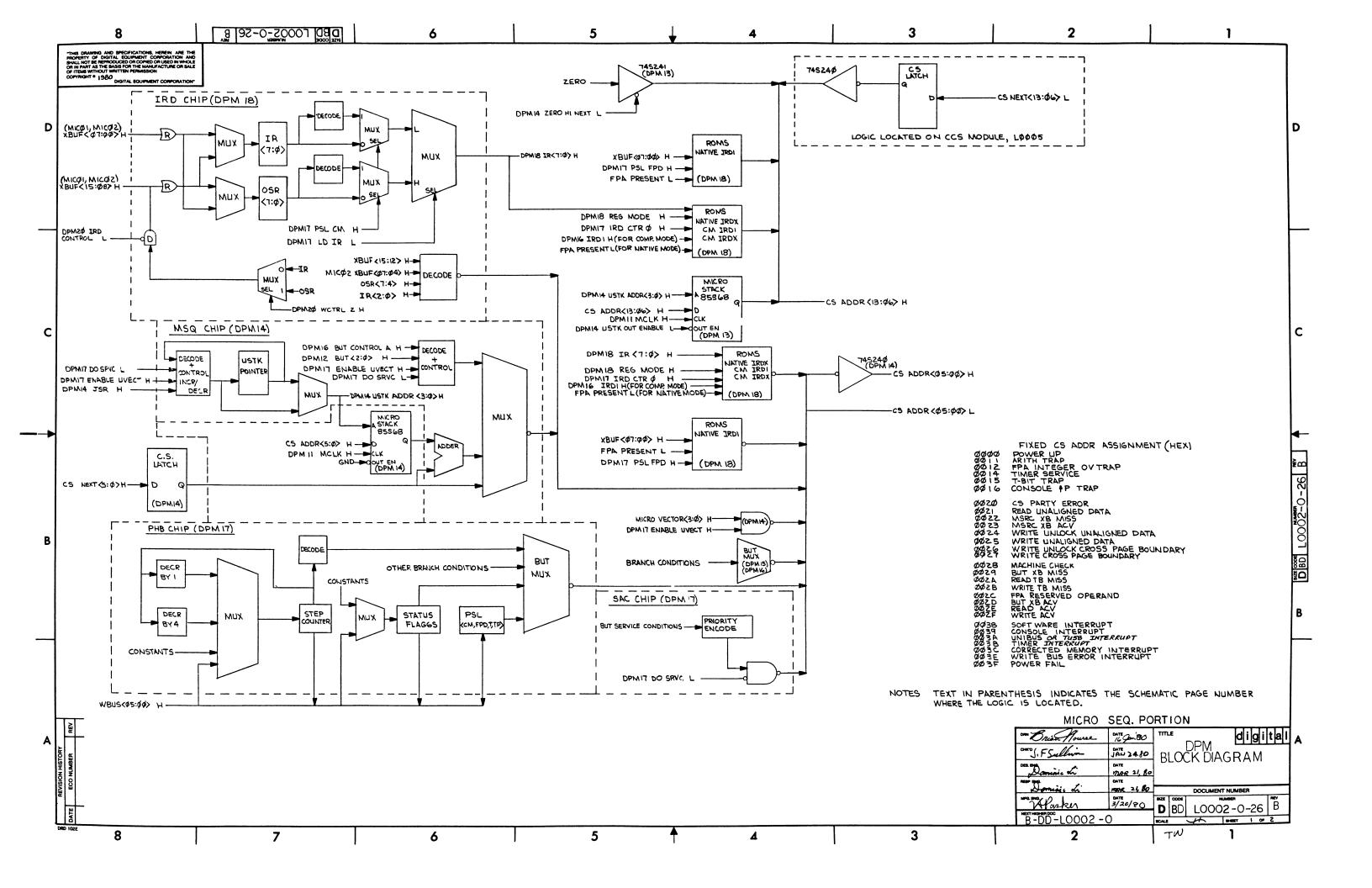


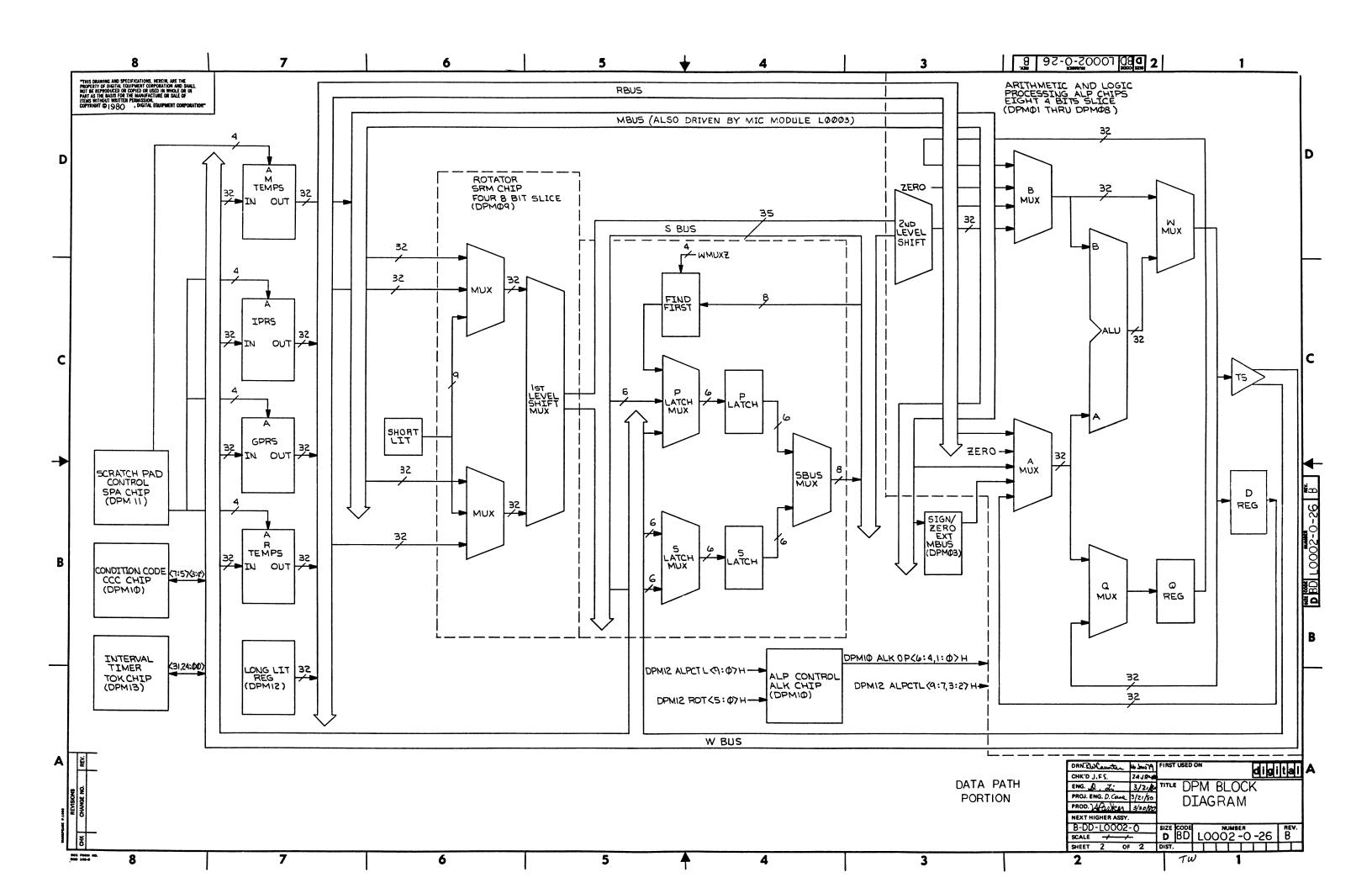
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ALU SIO 23 L ALU SIO 27 L ALU SIO 31 L	07,06 07,08 08,10	CS ISTRM H CS JSR H CS LIT 0 H CS LIT 1 H	17 14 17,20 17,20	DP1694 ALLV 15 H DP1694 G(15:12) L DP1694 P(15:12) L DP1695 G(19:16) L	10,64 10,64 10,64 10,65	
CCS14 CPU OSC OUT H	17	CS MISC CTL Ø H CS MISC CTL 1 H	17	DPM85 P(19:16) L DPM86 G(23:20) L	10,05 10,06	
CLK CTRL 0 H CLK CTRL 1 H CS ADDR 00 H CS ADDR 00 L CS ADDR 01 H	17 17 14 18,14,17,16 14	CS MISC CTL 2 M CS MISC CTL 3 M CS MISC CTL 4 M CS MSRC 0 M CS MSRC 1 M	17 17 17 13	DPM86 P(23:20) L DPM87 G(27:24) L DPM87 P(27:24) L DPM88 ALUV 31 H DPM88 G(31:28) L	10,06 10,07 10,07 10,08 10,08	
CS ADDR 01 L CS ADDR 02 H CS ADDR 02 L CS ADDR 03 H	18,14,17,15 14 18,14,17,15 14	CS MSRC 2 H CS MSRC 3 H CS MSRC 4 H CS NEXT 00 H	13 13 13 14	DPH08 P(31:28) L DPH09 SHF 0 L DPH09 SHF 1 L DPH09 SRK ST0 H	10,08 09,05,01,06,02,07,03,08,04 09,05,01,06,02,07,03,08,04 16,09	
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_	3		Q+НX	D+HX	SQR	Q+M D+HX+R	п+нх	D+HX G+H\(\times\)	SQR	D+H,+b G+H	а⊷нх	D+HX G+HA	Q⇔н×	Q+XM D+HX+R	Q+НX	Q÷HX XH÷C	Q+HX	HX+D E+XH+C	Q+HX	D+HX D+HX	SER D+HX	B+R Q+D D+HX+R	Q+HX	D+HX G+HX	5Q R	D+HX+G D+D	Q+НX	Q+HX D+HX	Q÷нх	Q+# D+HX+5	Q÷НХ	Q+HX D+HX	Q+НX	Q+R D+HX+S
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	7	(A+B+CI).SL	NOP	D+HX	3Q.	SQL.	NOP	D+HX	SQL	SQL D+HX	NOP	D+HX	NOP	D+HX	NOP	D+H7	NOP	D+HX	NO°	D+HX	D+HX	RESVRD	NOP	D+HX	SQL	SQL. D+HX	NOP	D+HX	NOP	D+HX	NOP	р•нх	NOP	D+HX
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1	8	A.AND.B	NOP	D+HX	5QL.	D+HX SQR	NOP	D+HX Q+HX	5QL.	SQL D+HX 3QR	NOP	D+HX	NOP	D+HX Q+HX	NOP	D+HX Q+HX	NOP	D+HX	NOP	D+HX	SQL D+HX SQR	RESVRD	NOP	D+HX	3QL 	SQL D+HX SQR	NOP	D+HX R+HX	HX+.NOT.S	C. TON. •XH	NOP	D+HX	NOP	О•НХ Э•НХ
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1	9	A.OR.B	Q+HX	Q+HX D+HX	SQR	SQR D+HX	Q+HX	C+HX D+HX	3QR	D+HX D+HX	Q++iX	Q+HX D+HX	Q+HX	G+HX D+HX	Q+HX	G+HX D+HX	Q+HX	Q+HX D+HX	Q+HX	G+HX D+HX	D+NX SQR D+NX	RESVRD	Q+HX	Q÷HX D÷HX	SQR	D+HX SQR D+HX	Q+HX	D+HX D+HX	Q+HX	G+HX D+HX	Q+HX	G+HX D+HX	Q+HX	DeHX DeHX
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-	_	(A AND D) C	NOP	D=HX	50 L	SQL D+HX	NOP	D+HX	SQL.	SQL.	NDP	D+HX	NOP	О÷нХ	NOP	D+HX	NOP	D+HX	NOP	D+HX	DIVFAST+	DIVSLOH+	NOP	D+HX	SQL	SQ!. D+HX	NOP	D+HX	NOP	D+HX	NOP	D+HX	NOP	D+HX
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Ĺ		D A GI	Q+HX	D+HX G+HX	SQP	SQR D+HX	Q+HX	C+HX D+HX	SQR	SQR D+HX	д⊷нх	D+HX G+HX	Q+HX	Q+HX D+HX	Q+НX	Q+HX D+HX	Q+HX	Ø÷HX D÷HX	G÷HX	D+HX D+HX	SQR D+HX	RESVRO	Q+HX	Q÷HX D÷HX	50 K	SQR D+HX	Q+HX	D -H X	HX+3	HX+9 R+D+HX	Q÷НХ	Q+HX D+HX	Q+HX	D+H.4 D+HX
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E	E .4	A.AND.(.NOT.B)	NOP	D+#X	SQL	SQL D+WX	NOP	D+HX	SQL.	SQL D+HY	NOP	D+HX	NOP	D+HX	NOP	D+HX	NOP	D+HX	NOP	D+HX	SQL. D+HX	RESVRD	NOP	D+HX	SQL	SQL D+HX	NOP	D+HX	HB+LOOPF		NOP	D-HX	NOP	D=WX
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CI CI	DR	JX MIMBUS ARRY IN QIQ RE REGISTER RIRBUS	S GISTER S		50 5 W E	SQR D+H/ DL #SHIF DR #SHIF #SUPER # #WBUS	T Q RIG	SHT	sq q M≢SIGN/	SOR DHIX ZERO E	XTENDED	MBUS	Q+HX	D+HX	Q+ Н Х	D+HX D+HX	д+нх	Q+MX D+MZ	Q+HX JTPUT SABLE	Q+HX D+HX SPECIAL OPERATION	SQR D+HX D(MIC ORD	RO -		Q+H% D+H%	SQR E1	SQR D+HX ALPCTI	FUNC	GHX DHX	1		BD		инвек 2 -0 -2	Q+HX D+HX REV
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B DD SISE CODE NUMBER DRAWING NO. OF PART NO. **DESCRIPTION REVISIONS** PART REVISION BICIDIE | FIH2IJ2 BCDEFHH MIC DRAWING DIRECTORY B-DD-L0003-0 4 2 BCDEEFH E-UA-L0003-0-0 MIC UNIT ASSEMBLY 2 BC DEFHH K-PL-L0003-0-DBP MIC PARTS LIST BB -MD-5013693-0-0 6 Clalate MIC DRILL & ETCH DRAWINGS CC DDDDD 5013693 ETCHED ROARD CCDDDDD MIC PC DESIGN DATA BASE IDEA K-PC-L0003-0-DBI 3 BB CDDEF MIC ETCH CUT DRAWINGS E-EC-5013693-0-0 BC DEFH K-CS-L0003-0-DBS MIC DESIGN DATA BASE SUDS BBBBB BB D-CS-L0003-0-1 DATA ROUTING & ALIGNMENT SHT 1 ВВ BBBBB D-CS-L0003-0-2 DATA ROUTING & ALIGNMENT SHT 2 BB BBBBB MEMORY ADDRESS D-CS-L0003-0-3 BBBBBB MISC, CONTROL D-CS-L0003-0-4 ВВ BBBBB 1 D-CS-L0003-0-5 MEMORY INTERFACE_CS LATCHES BBBBBBB D-CS-L0003-0-6 MEMORY INTERFACE CONTROL SHT 1 DEF D-CS-1 0003-0-7 MEMORY INTERFACE CONTROL SHT 2 BBBBB BB D-CS-10003-0-8 CACHE TAG STORE R B B B B B D-CS-L0003-0-9 CACHE DATA STORE BYTES 3 & 2 BBBBB D-CS-L0003-0-10 CACHE DATA STORE BYTES 1 & Ø BBBBB CD D-CS-L0003-0-11 CACHE CONTROL ВВВВВ D-CS-L0003-0-12 CACHE TAG PARITY BBBCC D-CS-L0003-0-13 CACHE TAG PARITY BBBBBB TB TAG D-CS-10003-0-14 D-CS-L0003-0-15 1 TB DATA STORE BBBBBB BBCCCDD D-CS-L0003-0-16 TB CONTROL **NOTES:** * CONTROL SOURCE IS THE SUDS DATA BASE 12-80 TWØØ12 11-81 TWØØ12 10-82 TWØØ3 12-83 TWØØ4 6-84 TWØØ5 10/84 TWOO6 REVISIONS CHG NO. NO CONTROLLED PAPER ORIGINALS EXIST ALL DOCUMENTATION WAS RELEASED AT REVISION 'B' TITLE DRN. **USED ON OPTION/MODEL** J. CASEY "THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PRO-11/750 PERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL MIC CHK'D NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF B DD NUMBER RFV. ITEMS WITHOUT WRITTEN PERMISSION. L0003-0 PROD. V. PARKEP COPYRIGHT© 1980 DIGITAL EQUIPMENT CORPORATION SHEET 1 OF 4

DRB 126

TW

LCC03-0

B DD size code NUMBER DRAWING NO. SF PART NO. **DESCRIPTION REVISIONS** TB PARITY D-CS-L0003-0-17 MISC CONTROL & DECOUPLING D-CS-L0003-0-18 FORWARD REFERENCE C-CS-L0003-0-19 BCCCCCC -CS-L0003-0-20 FORWARD REFERENCE P C C C D E BBBBCC -CS-L0003-C-21 FORWARD REFERENCE BCCCCDD -CS-L00C3-0-22 FORWARD REFERENCE -BD-L0C03-0-23 MIC BLOCK DIAGRAM BCCCCCC **NOTES:** * CONTROL SOURCE IS THE SUDS DATA BASE TW001

TW002

TW003

TW004

TW004

TW005 NC CONTROLLED PAPER ORIGINALS EXIST ALL DOCUMENTATION WAS RELEASED AT REVISION 'B' |2-80 |1-8| |0-82 |2-83 |6-84 |0/84 DRN. J. CASEY TITLE USED ON OPTION/MODEL "THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL 11/750 MIC CHK'D J. CASEY NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF B DD NUMBER ENG. P. PINDER REV. ITEMS WITHOUT WRITTEN PERMISSION. L0003-0 PROD. V. PARKER COPYRIGHT® 1980 DIGITAL EQUIPMENT CORPORATION SHEET 2 OF 4

0-20007

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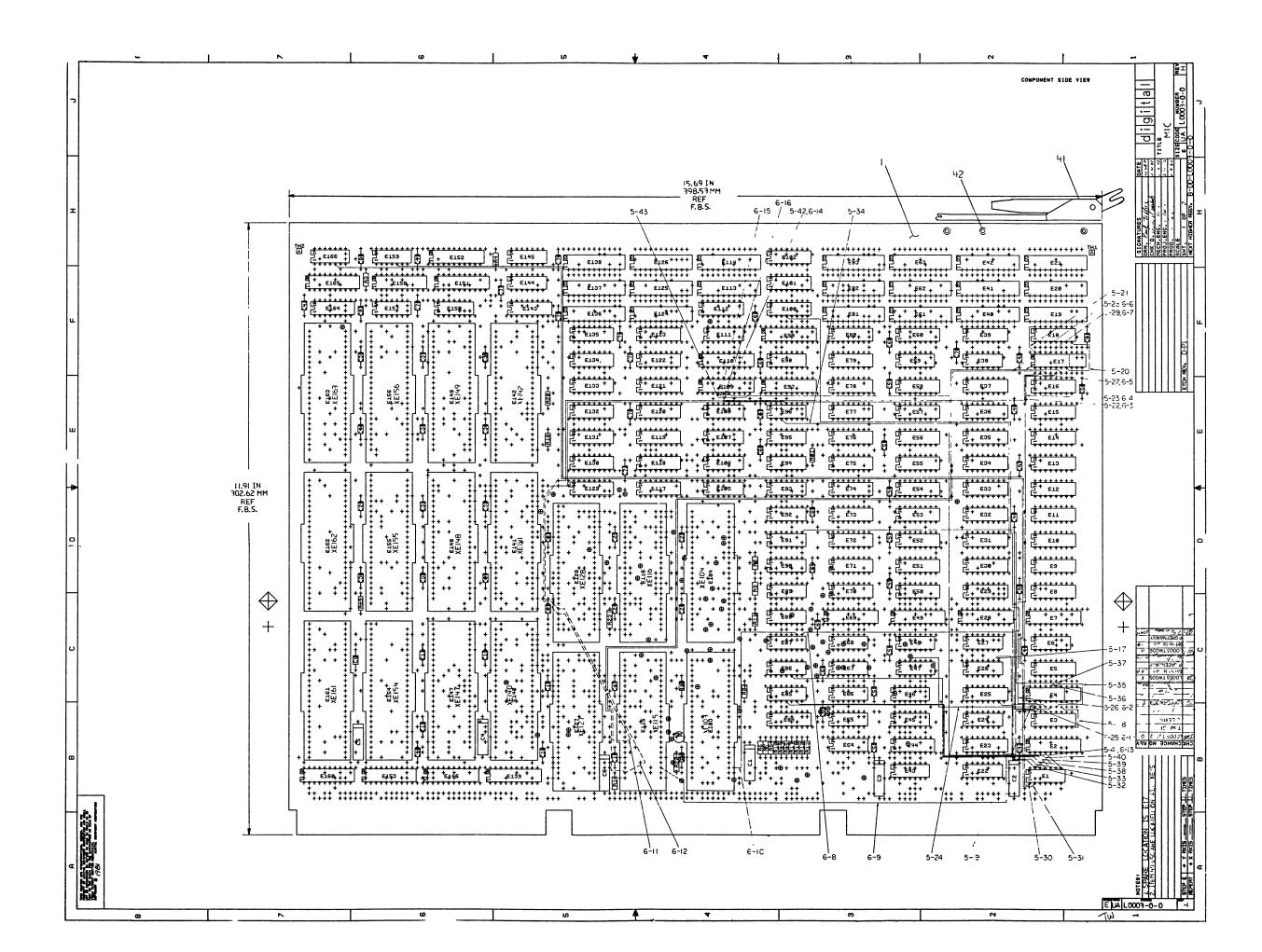
DRB 126

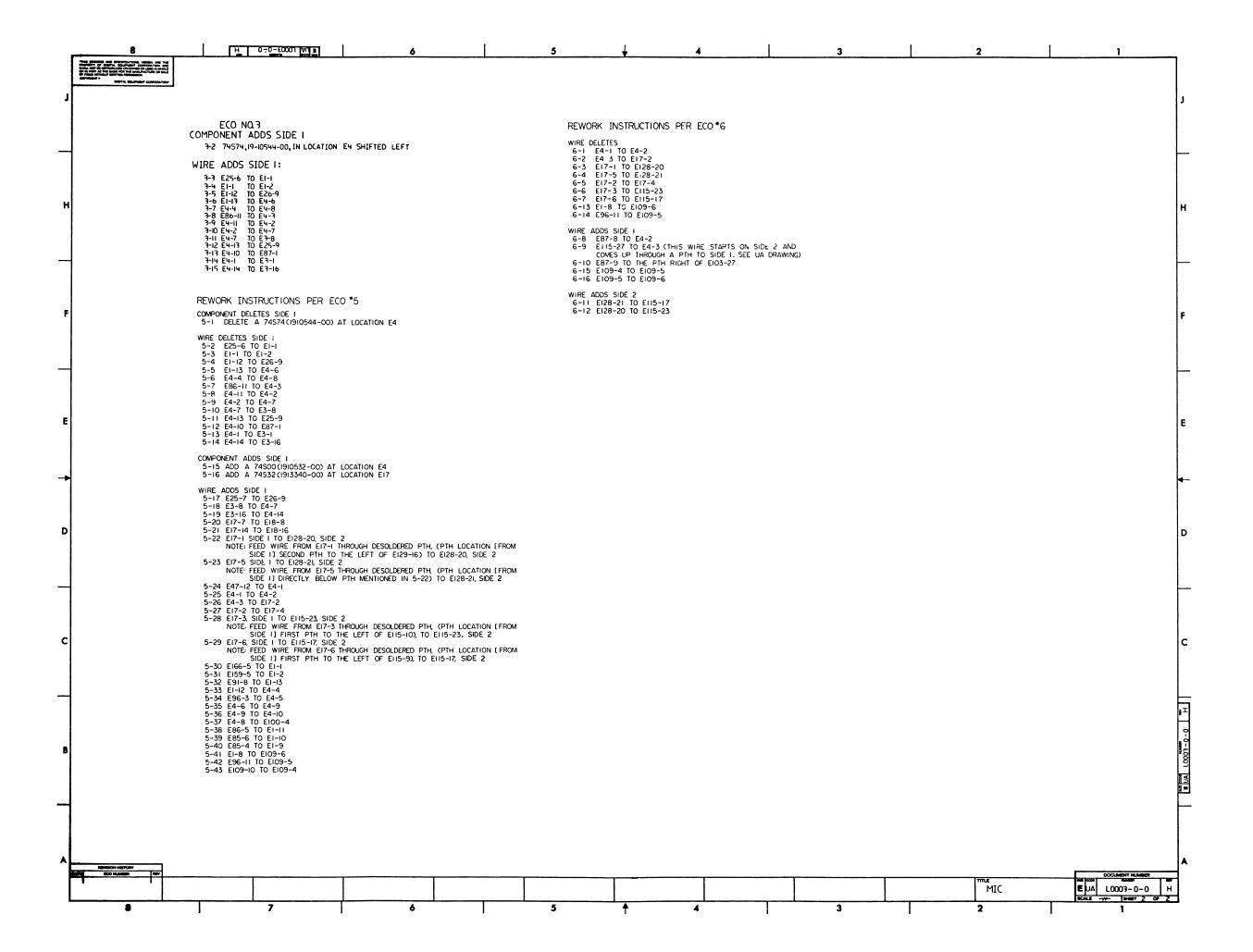
SIZE | CODE DRAWING NO. PART NO. DESCRIPTION **REVISIONS** PART REVISION E-UA-L0003-0-0 2 MIC UNIT ASSEMBLY CI CIC2C3 E-EC-5013693-0-0 3 - BI BI B2 B3 MIC ETCH CUT DRAWING K-CS-L0003-0-DBS |C1|C2|C2|C2 MIC DESIGN DATA BASE SUDS - - BICICICI K-CS-L0003-0-1 DATA ROUTING & ALIGNMENT SHT - BICICICI K-CS-L0003-0-2 DATA ROUTING & ALIGNMENT SHT 2 - BICICICI K-CS-L0003-0-3 MEMORY ADDRESS BICICICI K-C5-L0003-0-4 MISC, CONTROL - BICICIC K-CS-L0003-0-5 MEMORY INTERFACE CS LATCHES BICICICI K-CS-L0003-0-6 MEMORY INTERFACE CONTROL SHT K-CS-L0003-0-7 MEMORY INTERFACE CONTROL SHT 2 BICICICI K-CS-L0003-0-8 CACHE TAG STORE BICICICI K-CS-L0003-0-9 CACHE DATA STORE BYTES 3& 2 BICICICI K-CS-L0003-0-10 CACHE DATA STORE BYTES 1& Ø BICICICI K-CS-L0003-0-11 CACHE CONTROL BICICICI K-C5-L0003-0-12 CACHE TAG PARITY - BICICICI K-CS-L0003-0-13 CACHE TAG PARITY BICICICI K-CS-L0003-0-14 TB TAG - BICICICI K-CS-L0003-0-15 TB DATA STORE - BICICICI K-CS-L0003-0-16 TB CONTROL - BI CICICI K-CS-L0003-0-17 TB PARITY K-CS-L0003-0-18 MISC CONTROL & DECOUPLING lcılcılcılcı K-CS-L0003-0-19 FORWARD REFERENCE -l-l-|ci|ci|ci|ci K-CS-L0003-0-20 FORWARD REFERENCE - Icilcilcilci - | - | BI CI CI CI K-C5-L0003-0-21 FORWARD REFERENCE **NOTES:** ululi TW003 TW004 TW005 TW006 CHG NO. 4-7-84 4-9-84 6-84 10/84 DATE DRN. TITLE USED ON OPTION/MODEL "THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PRO-PERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL MIC 11/750 CHK'D NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF SIZE CODE NUMBER REV. ENG. ITEMS WITHOUT WRITTEN PERMISSION. **B** |**DD**| L0003-0 COPYRIGHT® 1980 DIGITAL EQUIPMENT CORPORATION PROD SHEET 3 OF 4

0 - £0007

B DD

Г0003 - 0 B DD size code DRAWING NO. OF SHTS. PART NO. **DESCRIPTION REVISIONS** K-CS-L0003-0*-*22 - CI CI CI CI - CI CI CI CI FORWARD REFERENCE K-BD-L0003-0-23 MIC BLOCK DIAGRAM **NOTES:** エ REVISIONS DATE CHG NO. F 6-84 TWØØ5 IO/84 TWOO6 USED ON OPTION/MODEL DRN. TITLE "THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL MIC CHK'D NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF B DD NUMBER REV. ENG. ITEMS WITHOUT WRITTEN PERMISSION. L0003-0 PROD-COPYRIGHT® 1980 DIGITAL EQUIPMENT CORPORATION SHEET 4 OF 4





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2 2 1012784-00 .0 3 3 SEE NOTES 1012084-01	RILL & ETCH DRAWING 247 MFD 50V +80-20% CER 8 MFD 25V +75-10% AL EL 25.0.0 .25 W 5.0 % CF 74S00 NAND GATE-QUAD 2IN 74S04 INVERTER GATE-HEX 1I 74S10 NAND GATE-TRIPLE 3IN 74S64 A-0-I GATE 4-2-3-2 74S153 MUX 1 OF 4 (DUAL) 74S158 MUX 1 OF 2 (QUAD) 74S40 BUFFER,POS-NAND,DUAL 74S175 FF-D QUAD COMMON CLO 74S280 PARITY GEN/CHKR,9BIT	6 C1-C6 18 R1-R18 2 E4,E65 2 E85,E87 1 E91 3 E24,E47 3 E100-E1 2 E5,E79 1 E38 3 E3,E23, 17 CONT E105-E1	,E89 02 E25 E48,E59,E68,E98, 08,E111,E144,E145,E150,
15	74S257 MUX, QUAD 2 TO 1 74S51 AND-OR GATE-INVERT D RAM, 256X1, TRI STATE C 74S86 XOR GATE, QUAD 2IN 74S182 LOOK AHD CARRY GEN 74S02 NOR GATE-QUAD 2IN, PO 74S08 AND GATE-QUAD 2IN, PO C 74S37 NAND GATE-QUAD 2IN 74S32 OR GATE-QUAD 2IN 74S241 OCTAL BUFFER, TRI-STA RAM 1KX1 16 PIN TT	2 E26,E92 2 E112,E1 1 E96 1 E164 1 E88 1 E90 2 E94,E95 3 E17,E22 5 E7,E28, 50 E8-E16, CONT E117-E1 5 E2,E139	,E60,E80 43 ,E93 E49,E69,E97 E29-E37,E50-E58,E70-E78, 23,E129-E135 ,E146,E153,E160
26 26 1913839-00 27 27 1913888-00 DC	LS165 SHIFT REG.,8BIT 102A EQUALS CHECKER 8BIT	2 E44,E84 6 E109,E1	10,E151,E152,E158,E165
! REVISION HISTORY !BASIC PART NO: LOOO3 !! !ENG! ECO NUMBER !REV !SECTION A OF A	! !DRN: D.SIREEN !DA	E: 31-MAY-79 ! D I	G I T A L !
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! "THIS DRAWING /	AND THE	SPECIFICATIONS CONTAINED	HEREIN ARE	CONFIDENTIAL A	ND PROPI	RIETARY, T	HEY A	RE THE	PROF	PERTY	OF DI	GITA	!
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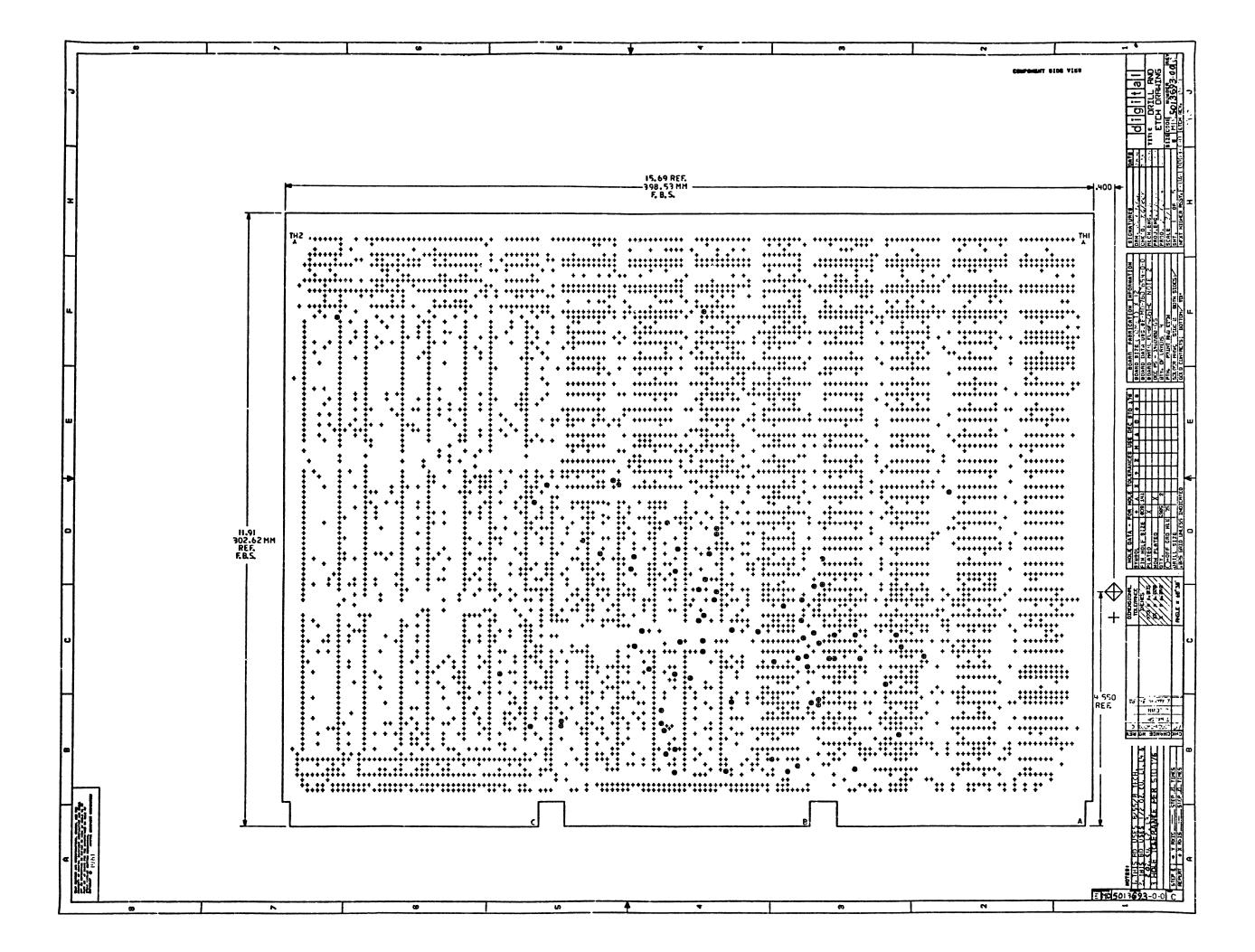
!EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE !

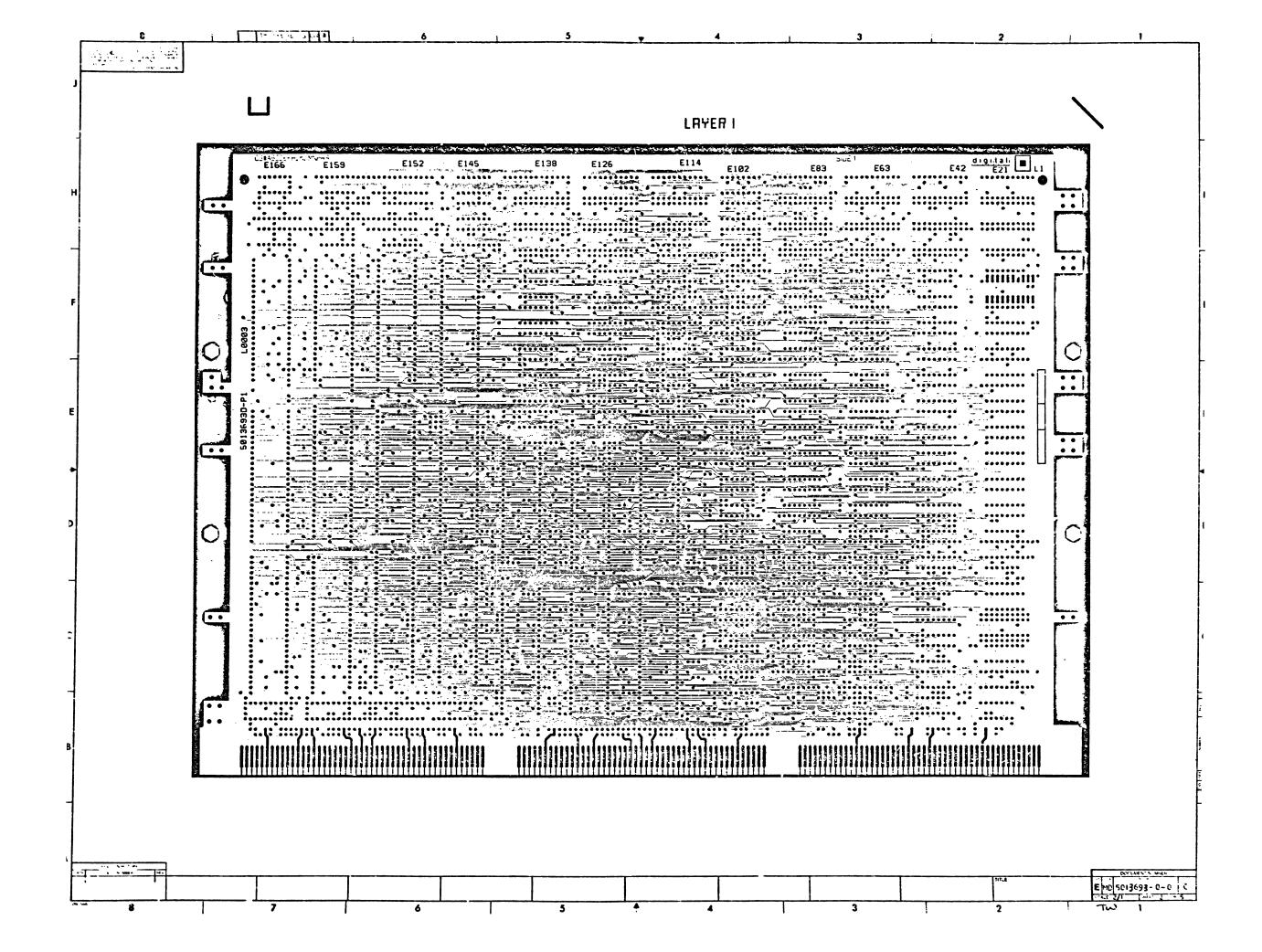
OF ITEMS WITHOUT WRITTEN PERMISSION. THIS IS AN UNPUBLISHED WORK PROTECTED UNDER THE FEDERAL COPYRIGHT LAWS."

AUTOM	ATED BY PRTLST.40(50)	MI	PARTS LIST	QTY PER VARIATIO	SHEET A2 OF A2
LINE	ITEM TOP DOCUMENT	PART NUMBER RE		00	REFERENCE DESIGNATOR
28	28	1914085-00	74S260 NOR GATE-DUAL, POS	3	E45,E67,E86
29	29	1914086-00	74S30 NAND GATE-POS 8IN	1	E64
30	30	1914681-00	DC 607B BIPOLAR, LS, 400-GATE	8	E140,E141,E147,E148,E154,E155,
				CONT	E161,E162
31	31	1914683-00	DC 609E BIPOLAR, LS, 400-GATE	4	E142,E149,E156,E163
32	32	1914725-00	DC 651 BIPOLAR,LS,400-GATE	1	E103
33	33	1914698-00	DC 624E BIPOLAR, LS, 400-GATE	1	E128
34	34	1914699-00	DC 625B BIPOLAR, LS, 400-GATE	1	E127
34 35 36 37 38	35	1914700-00	DC 626B BIPOLAR, LS, 400-GATE	1	E116
36	36	1914701-00	DC 627B BIPOLAR, LS, 400-GATE	1	E104
37	37	1914702-00	DC 628B BIPOLAR, LS, 400-GATE	1	E115
38	38	1 915193- 00	LS244 DRIVER,LINE,OCTAL,T	1	E99
39	39	1915697-00	RAM 256X4 TRI-STATE	20	E19-E21,E40-E42,E61-E63,E81-E83,
				CONT	E113,E114,E124-E126,E136-E138
40	40	1910537-00	74S11 AND GATE-TRIPLE 3INP	1	E66
41	41	1210711-02	/REPLACED BY 12-16988-02	1	
42	42	9000024-01	EYELET, ROLLED 0.1210DX0.192	12	
43	43	1503121-00	2N 2369 NPN 350MW SI N	1	Q1
44	44	1302379-00	75.0 .25 W 5.0 % CF	4	R19-R21,R23
45	45	9009185-00	JUMPER, WIRE, INSULATED, BLACK B	1	R22
46	46	1910544-00	74S74 FF-D DUAL, EDGE TRIGG	1	E46
47	47	1910878-00	7427 NOR GATE-TRIPLE 3IN	2	E43,E1
48	48	1215924-00	SKT, IC 48PIN DIP GOLD FOR	18	XE103, XE104, XE115, XE116, XE127,
	. •			CONT	XE128, XE140-XE142, XE147-XE149,
				CONT	XE154-XE156, XE161-XE163
49	49	1215935-00	GASKET, THERMAL SILICONE	18	
50	50	1215936-00	HEAT SINK, 2.200X.585	18	
51	51	9009898-00	TRANSIPAD, 4 HOLE	1	XQ1
٠, ٠	J.	2002000		•	

52 NOTE: SPARE I.C. LOCATION E17.
53 NOTE: SOME MODULES WILL HAVE 10-05306 INSTEAD OF 10-12084-01

1	TITLE	!	<u> </u>	!SIZE!CODE! DOCUMENT NUMBER ! REV	!
!DIGITAL	! MIC	SECTION A OF A	!		!
!		!	!	! K ! PL ! L0003-0-DBP ! H	!
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1-1-103:1050-3 5013693D-P1 50136930-P1

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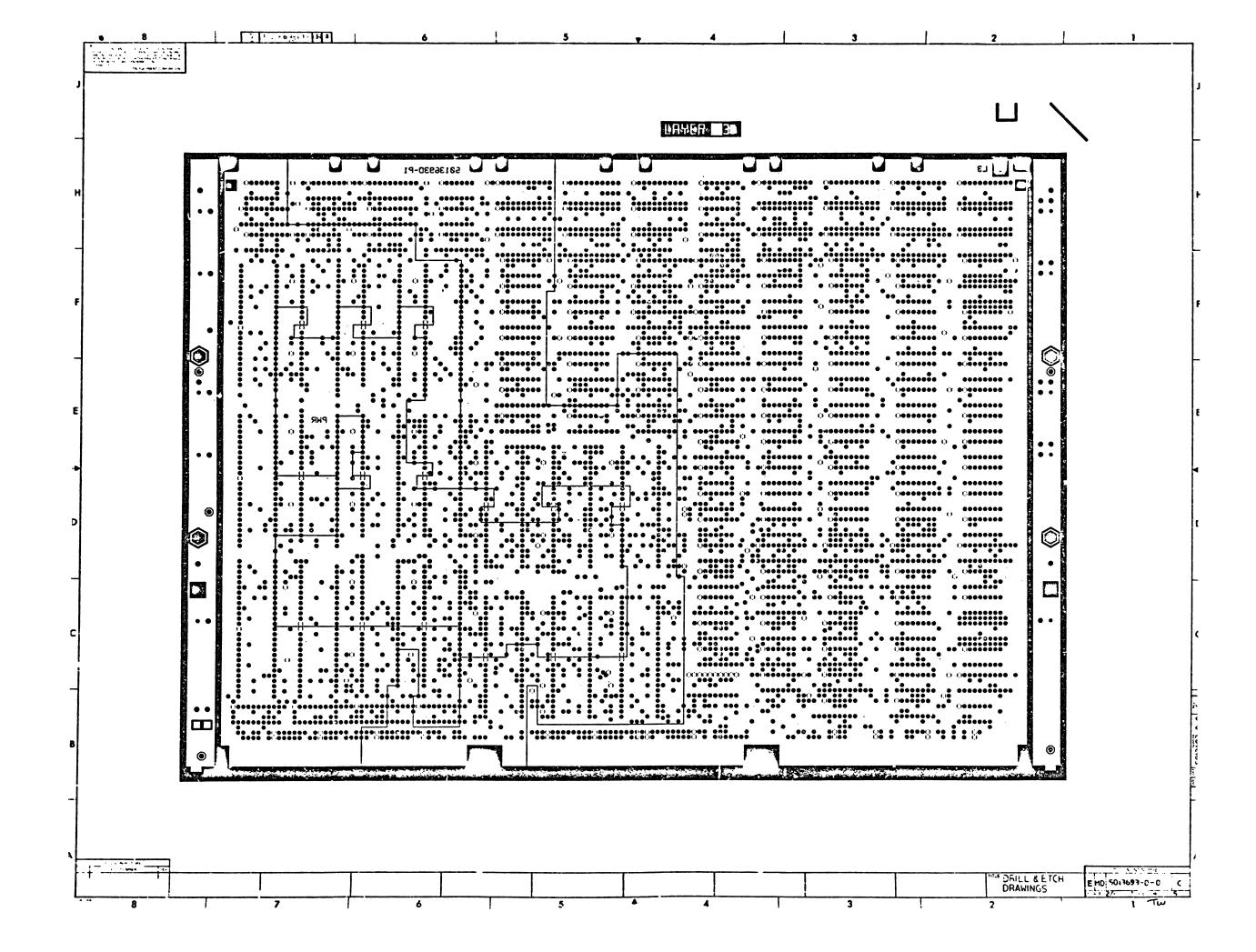
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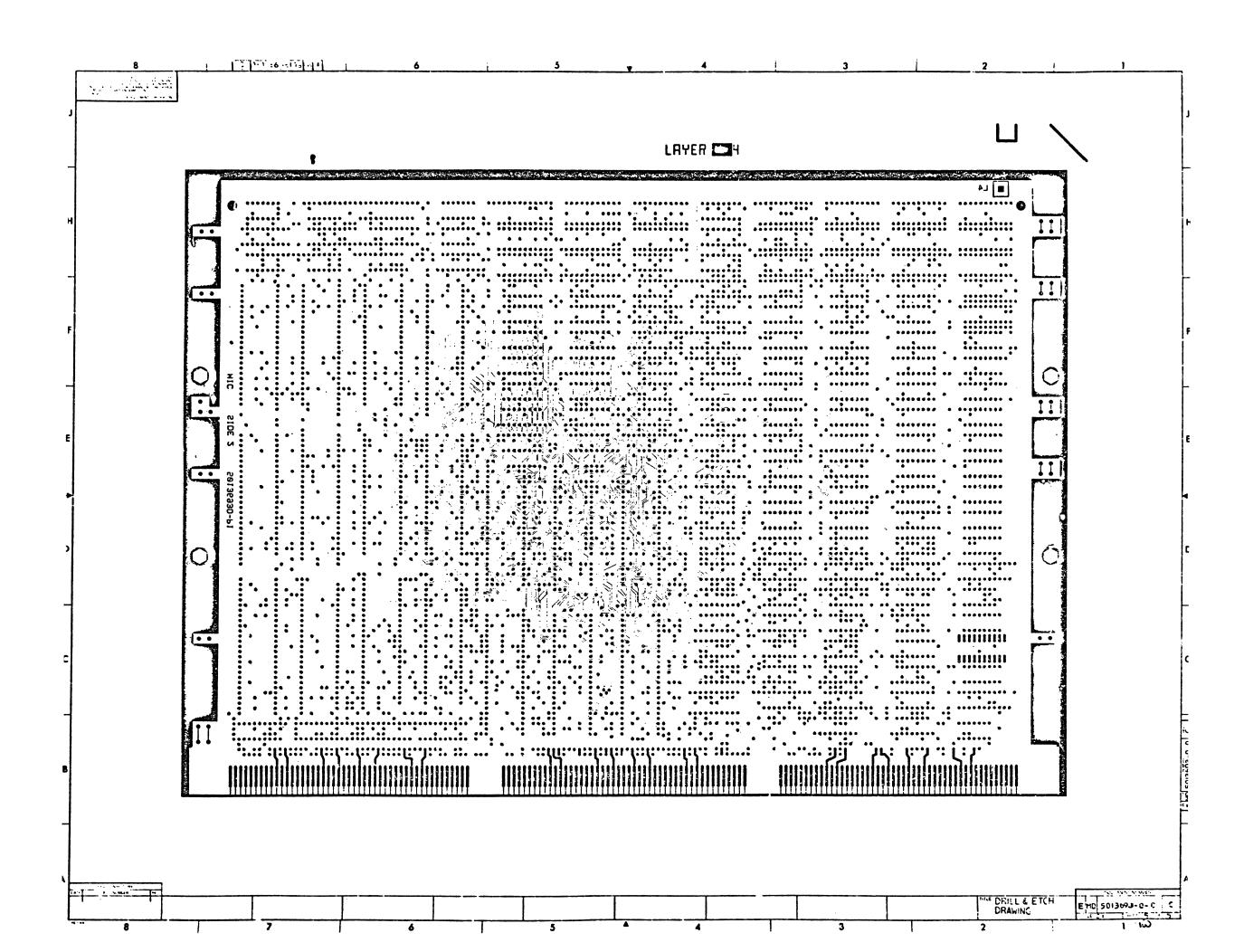
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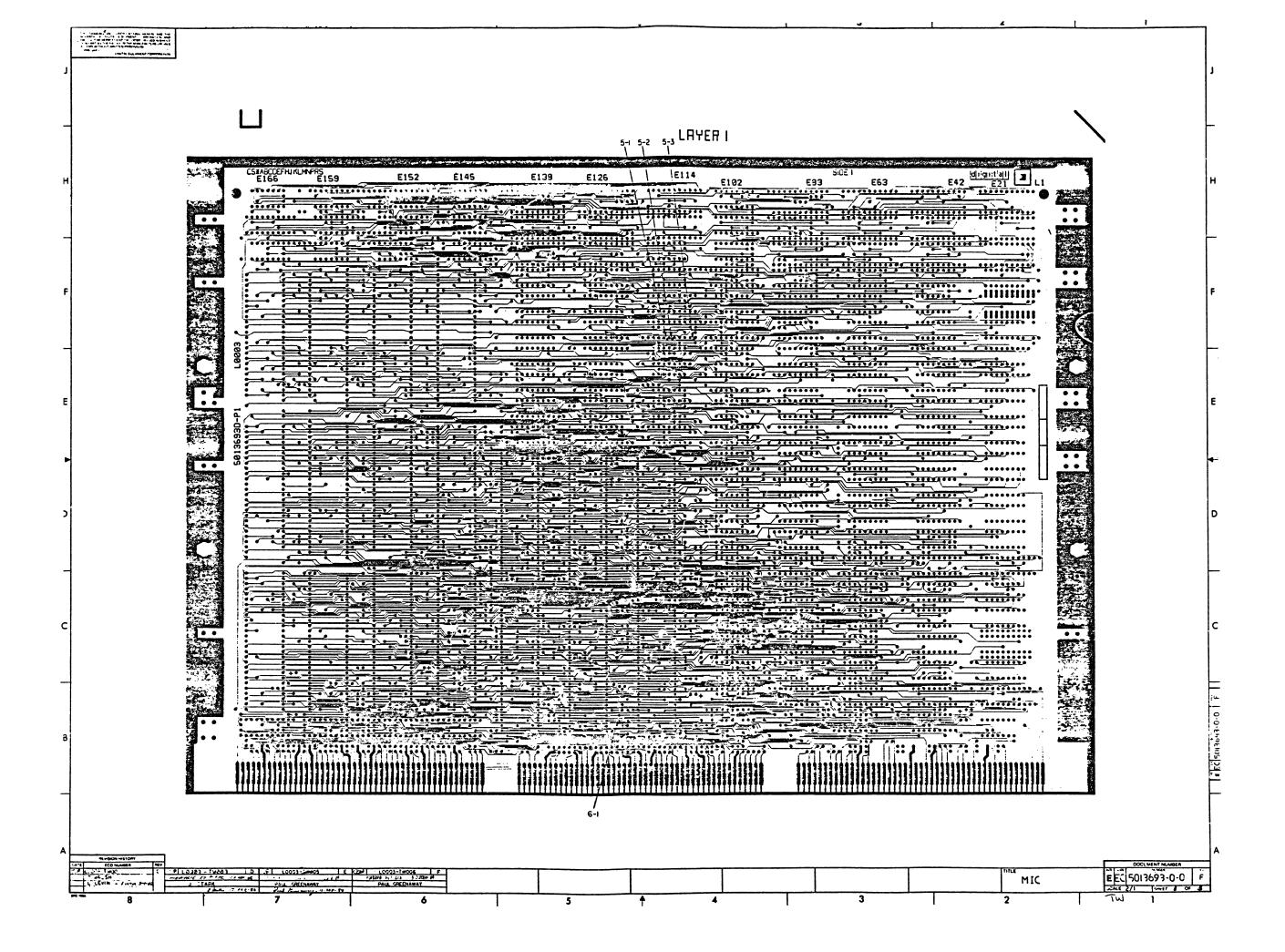
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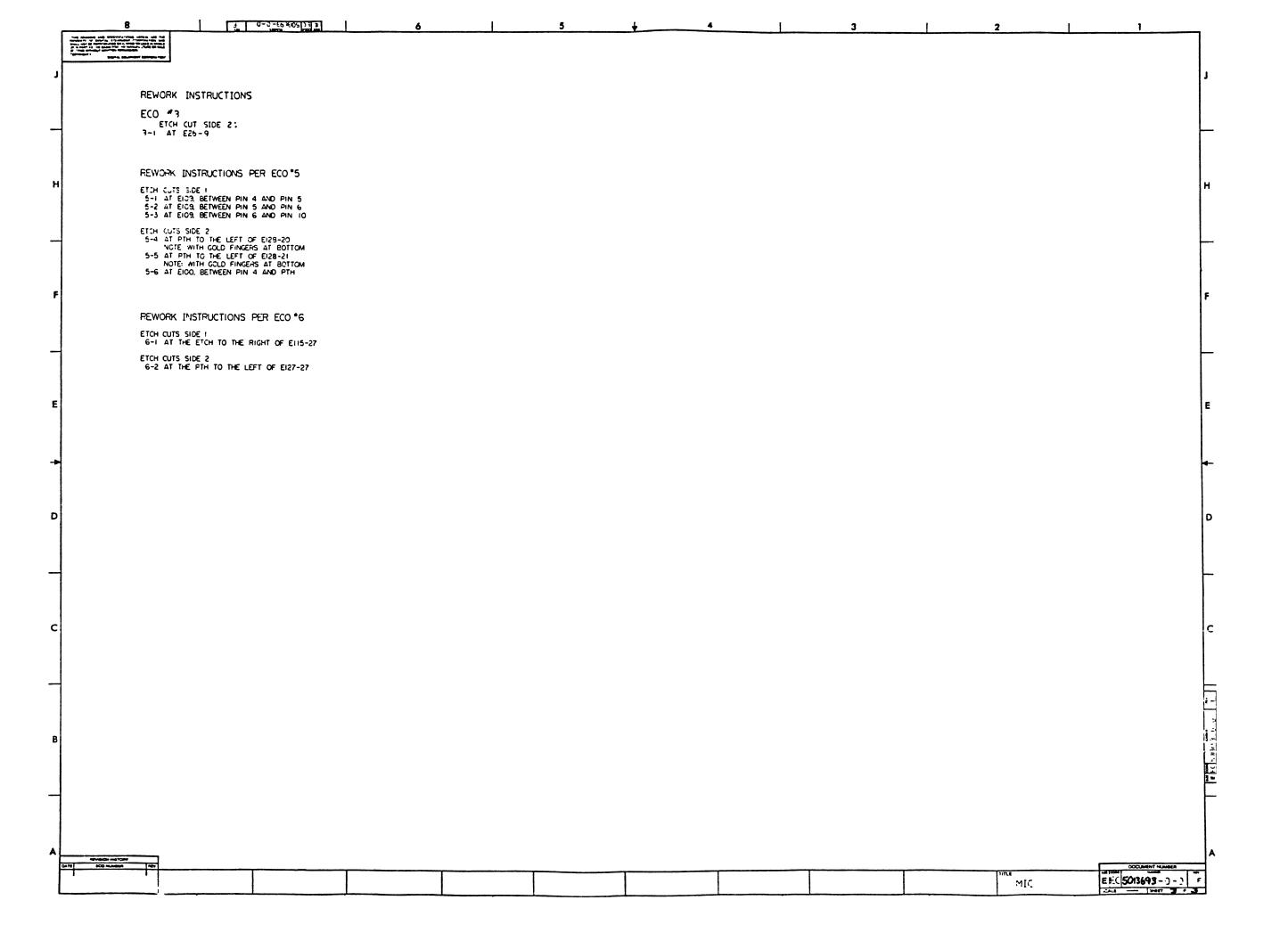
50136 •••••• ••••• •••••• DRILL & ETCH E MC 5013693-C-C DRAWING

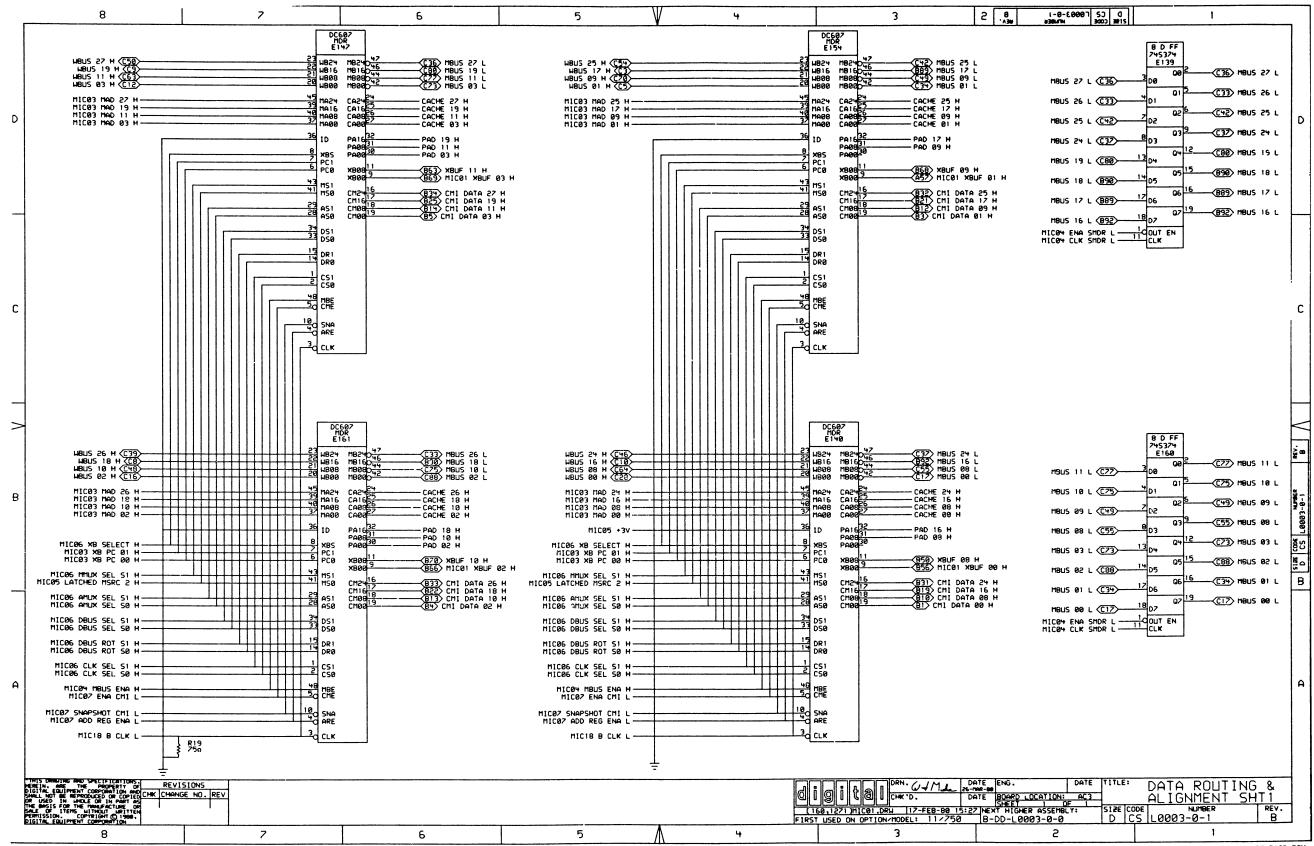


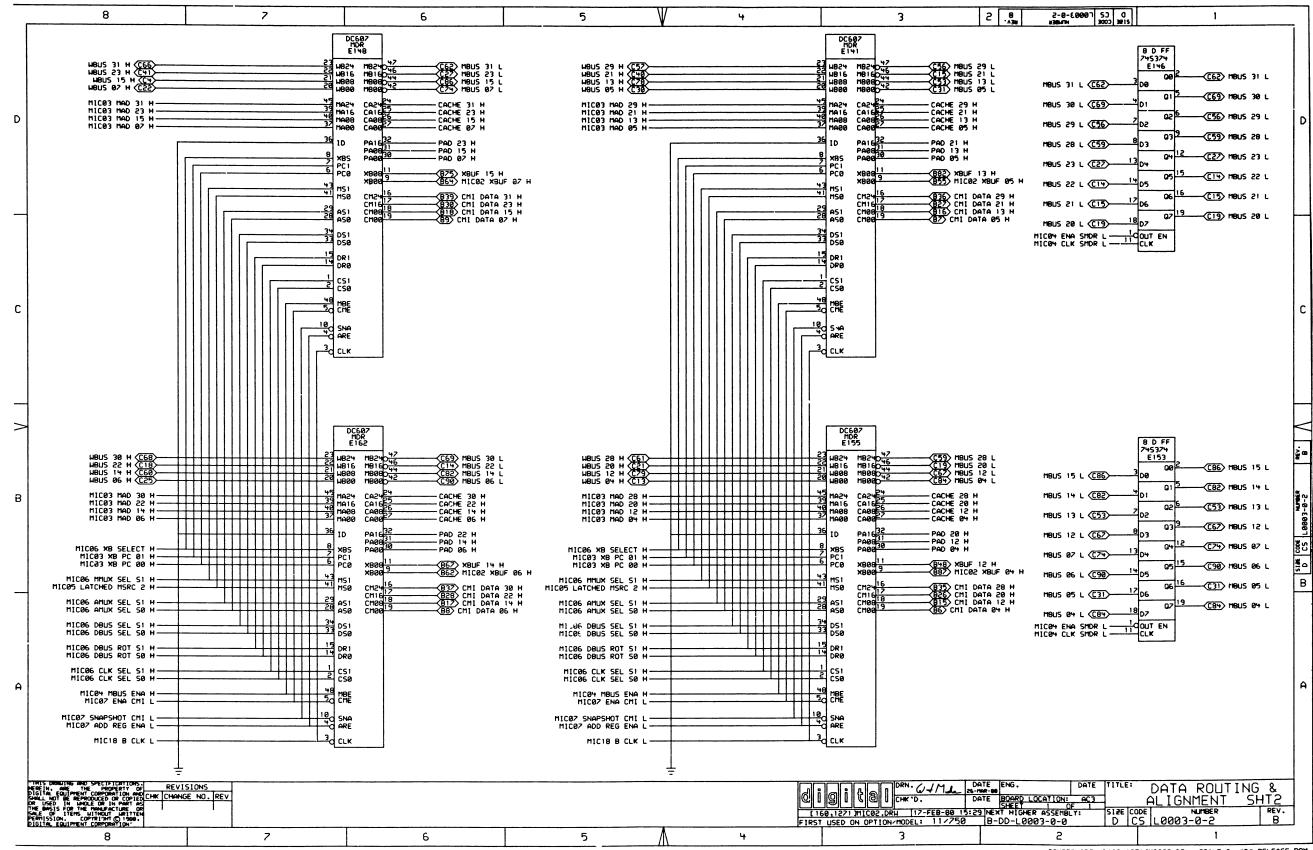


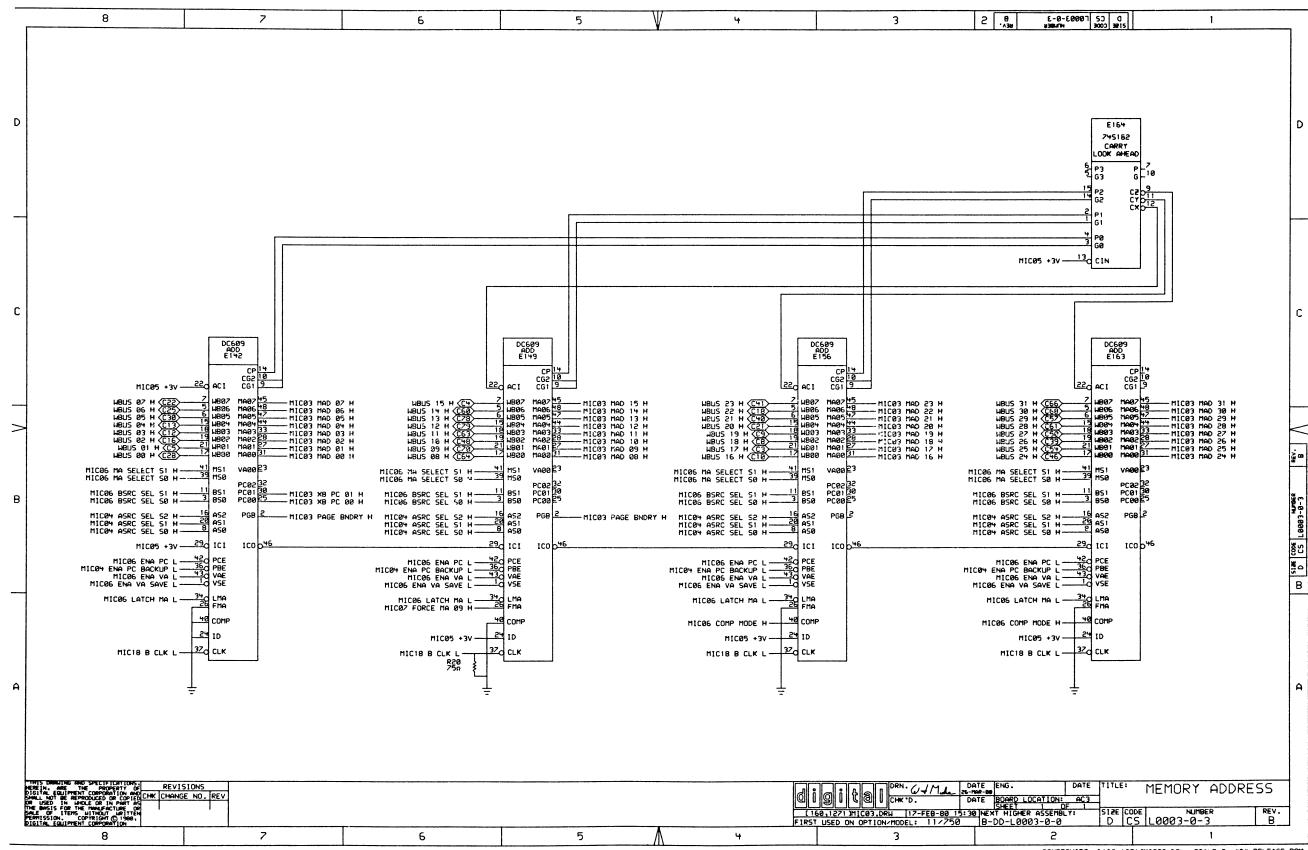


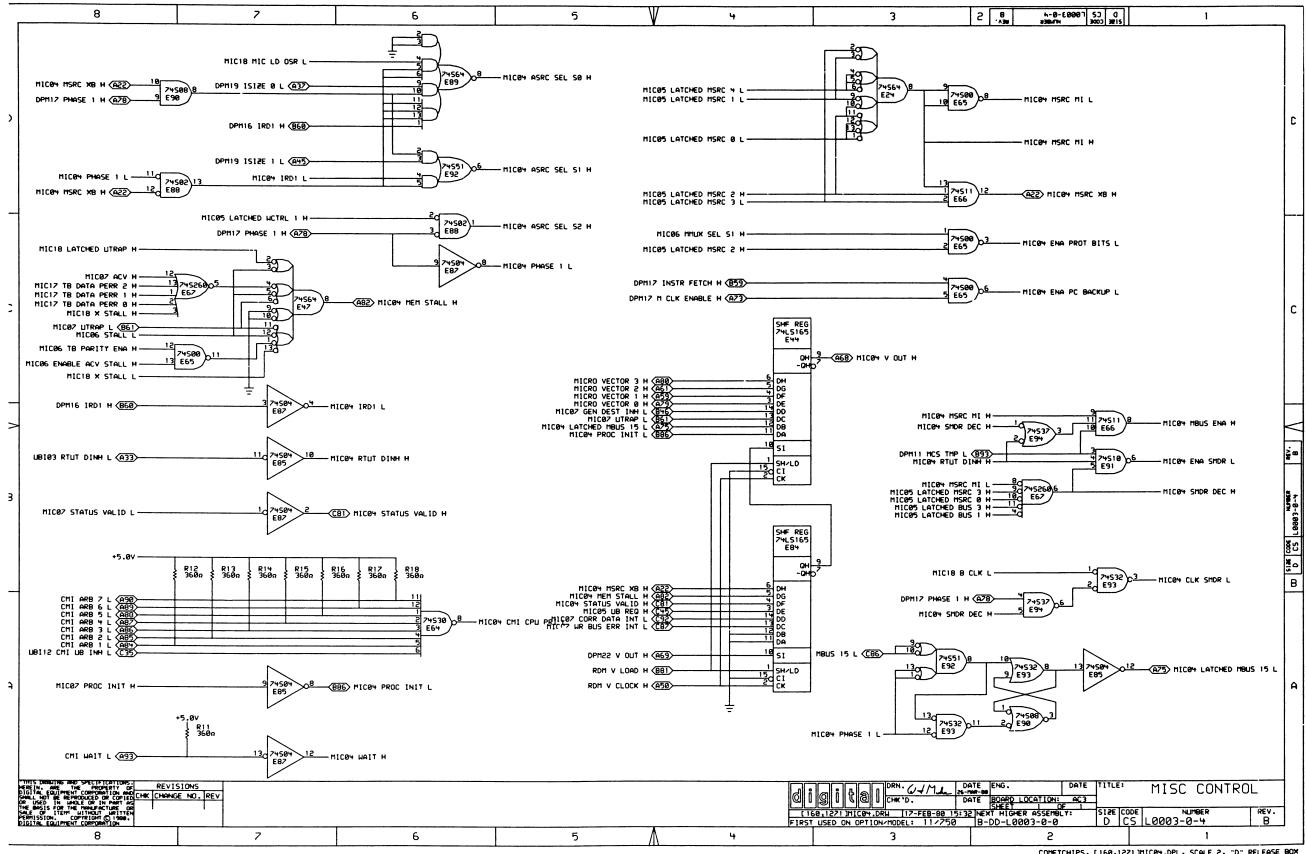
EC 2013693-0-0 E LAYER *** ■ L4 EEC 5013693-0-0 F MIC



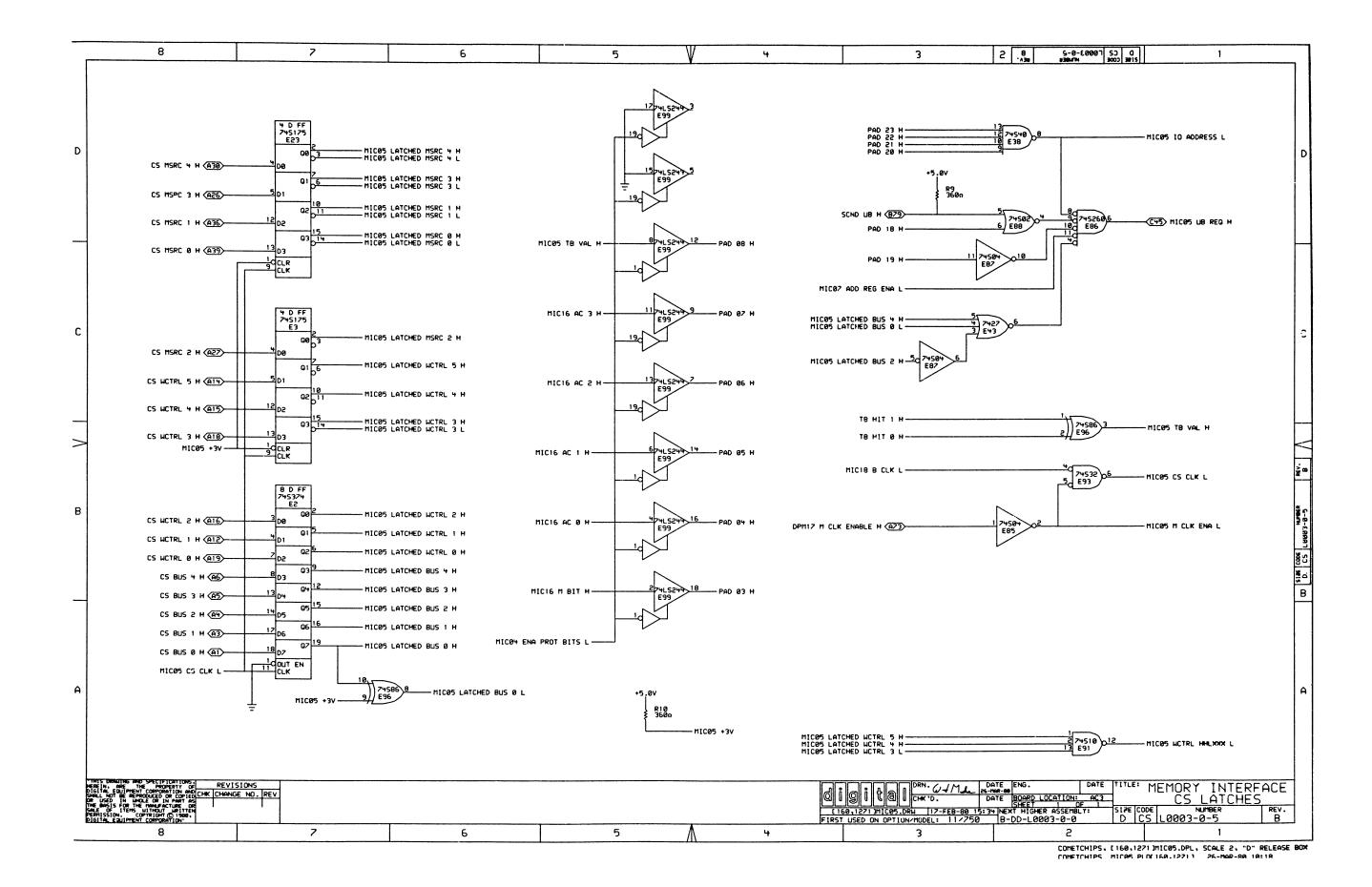


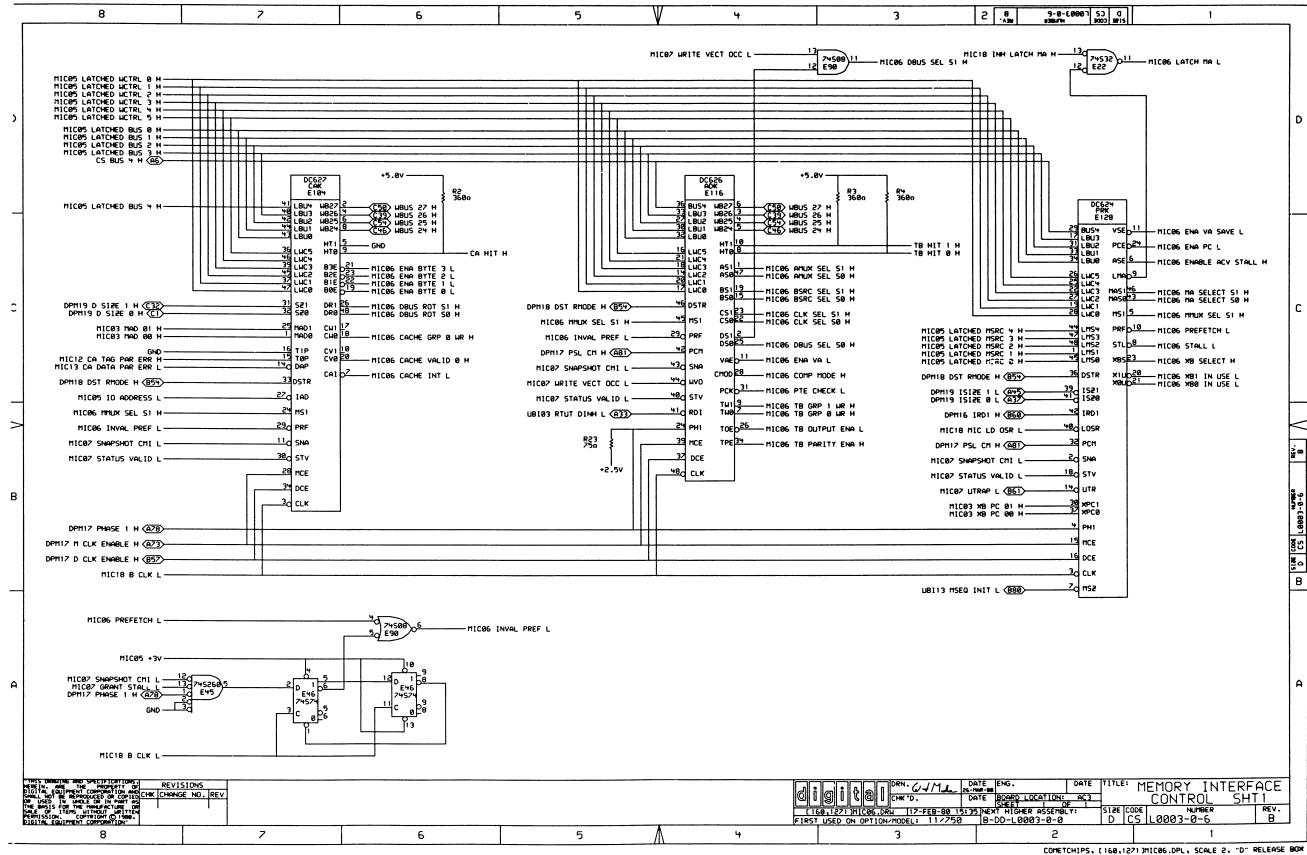


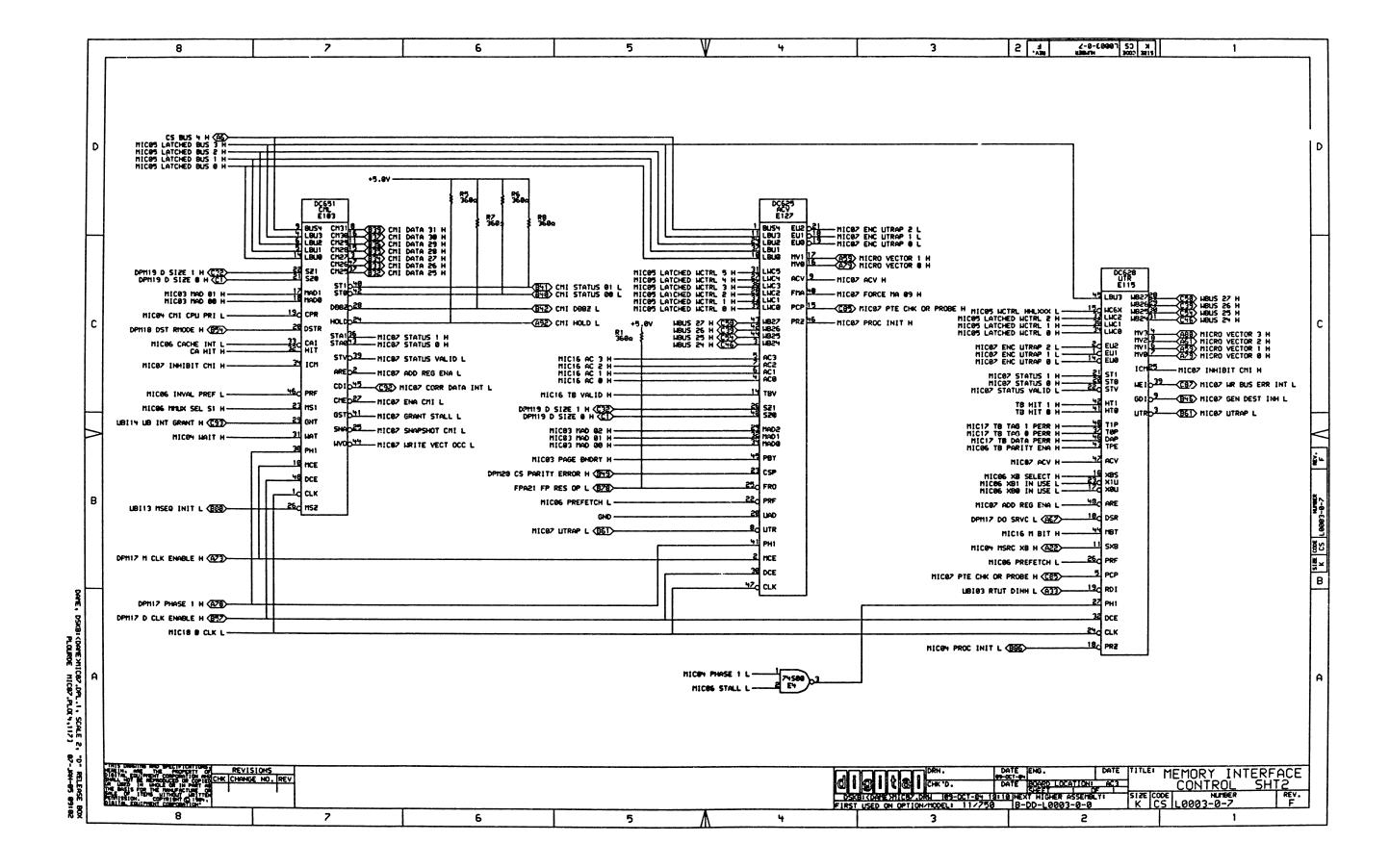


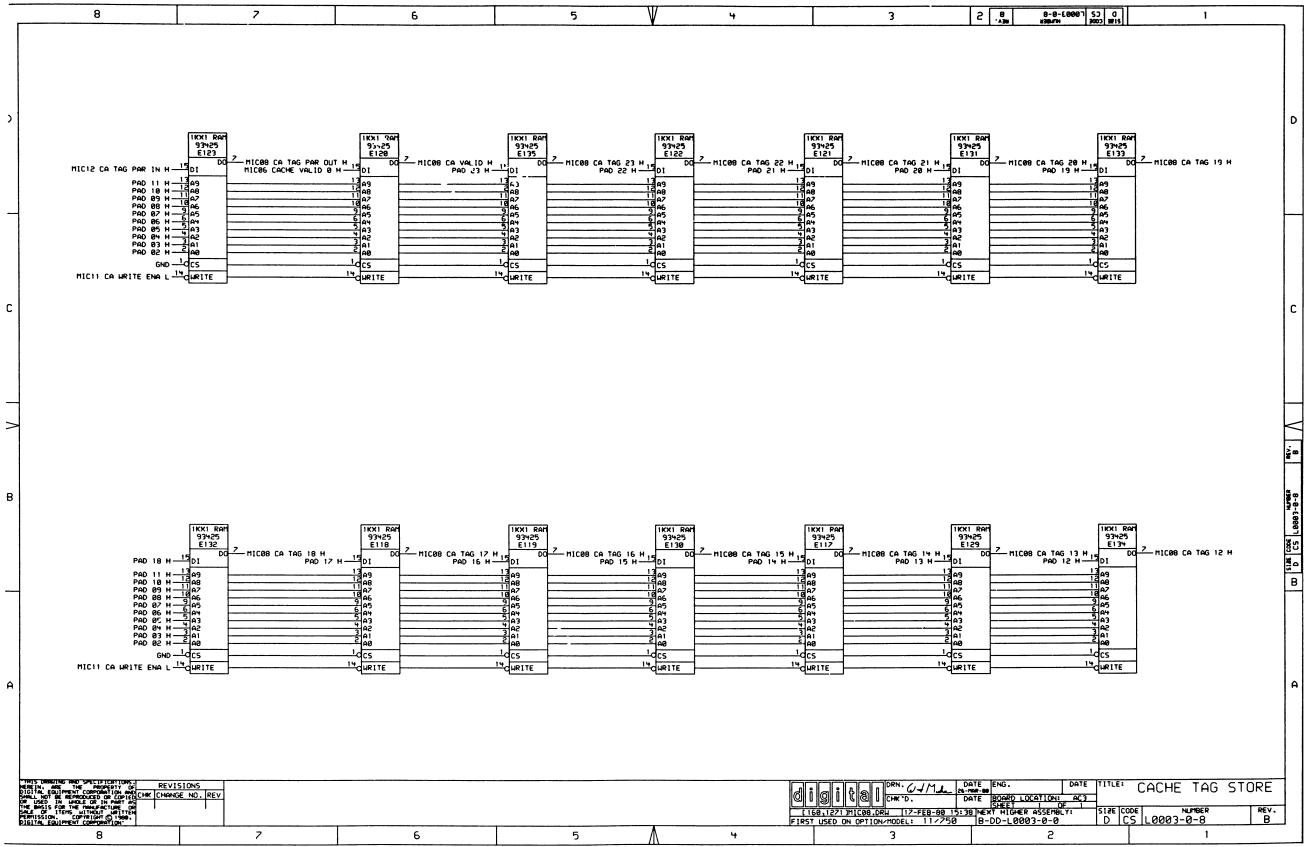


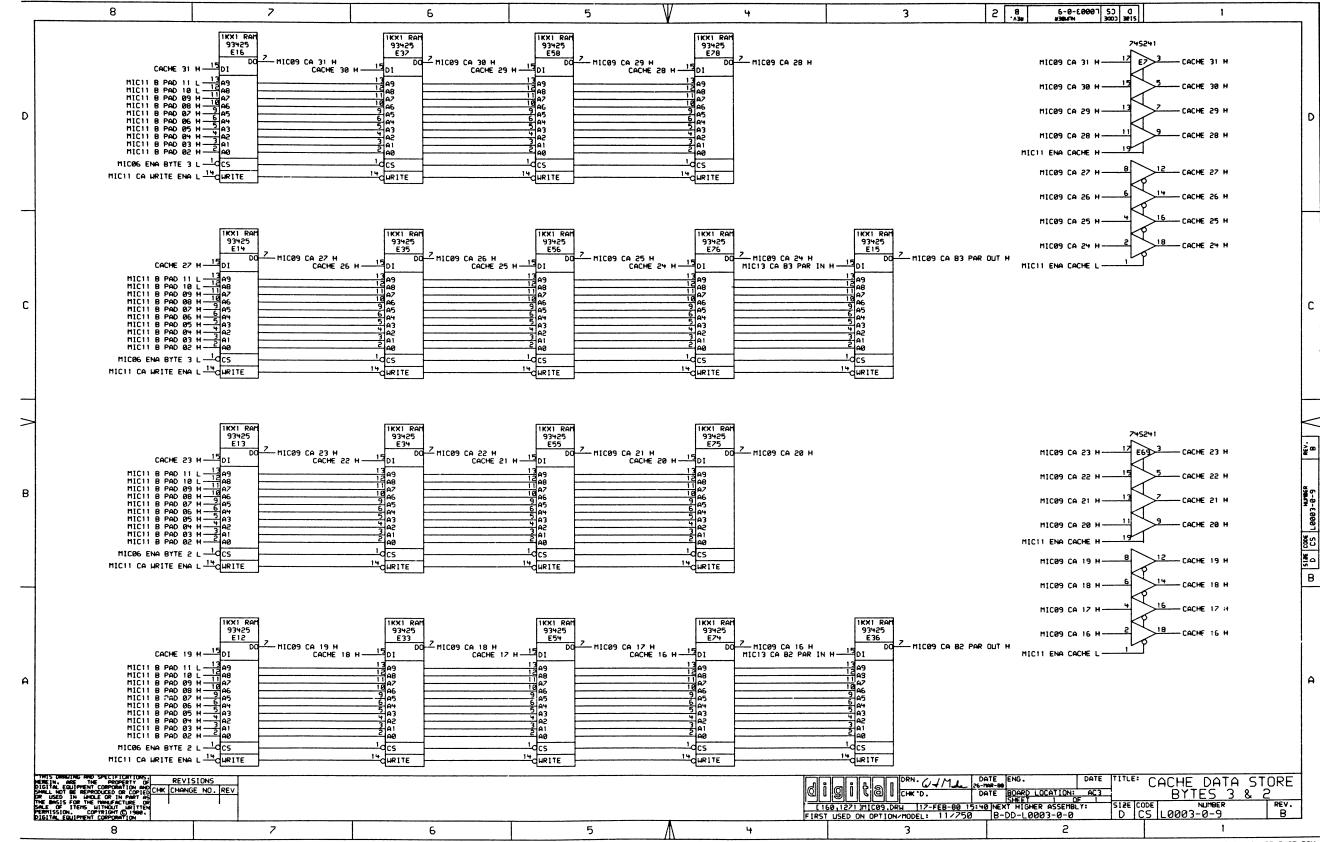
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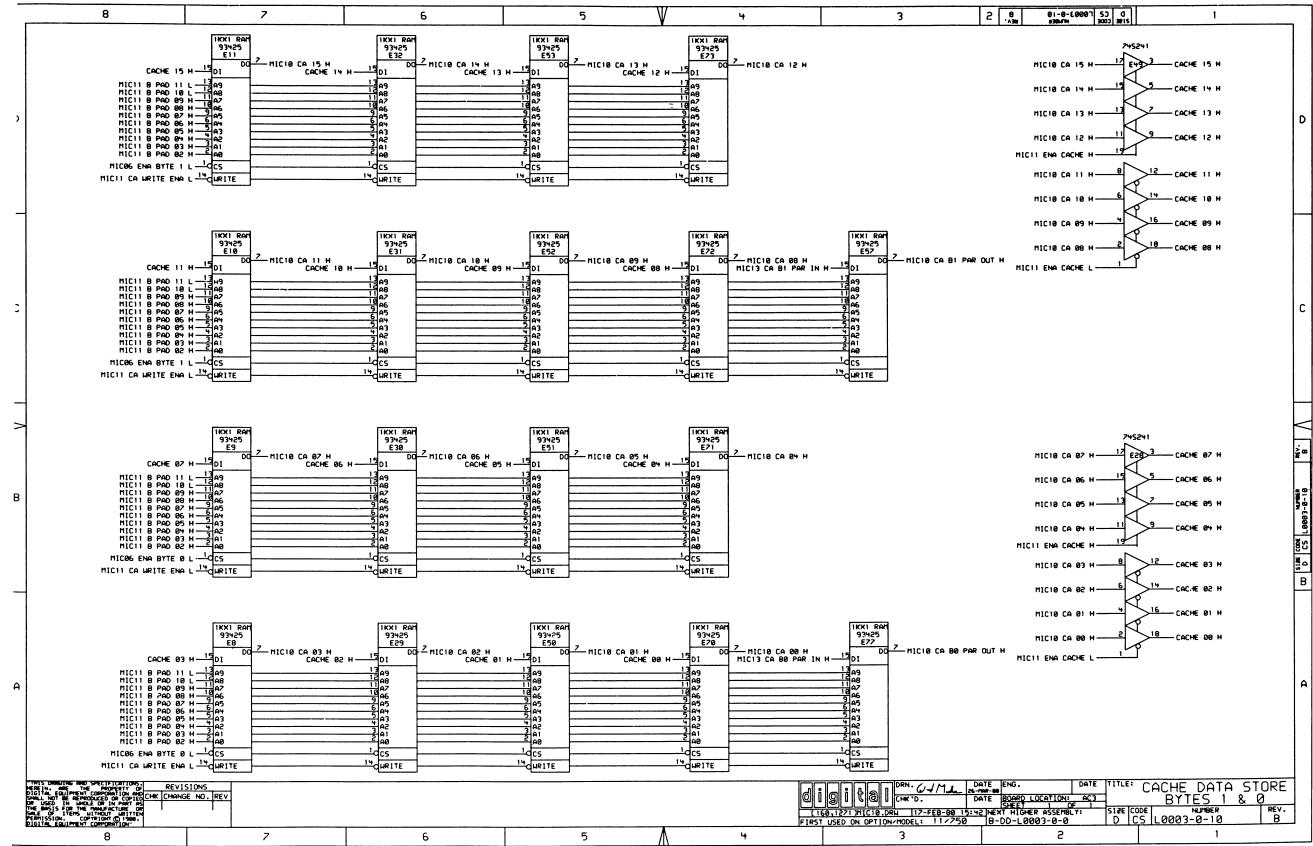


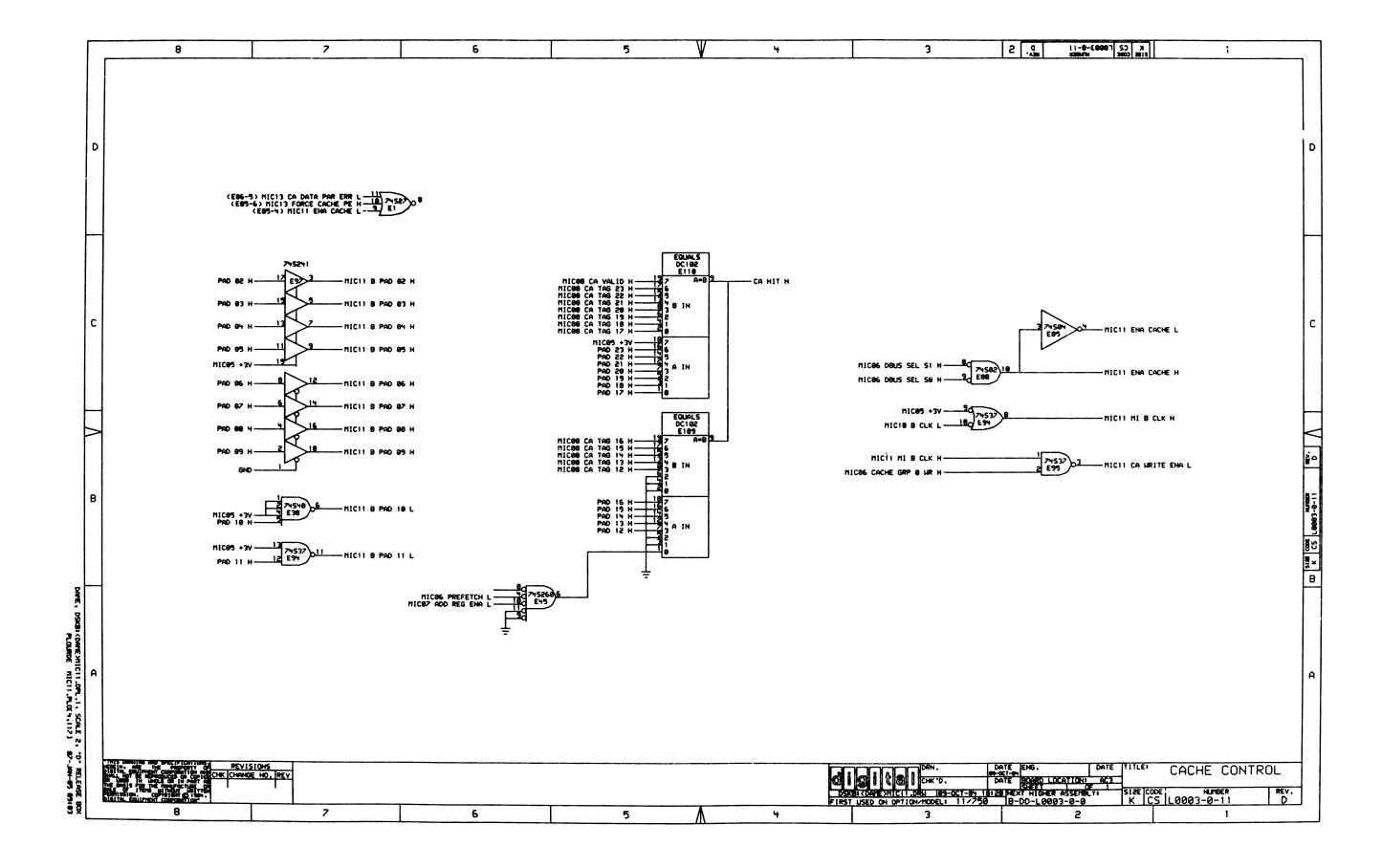


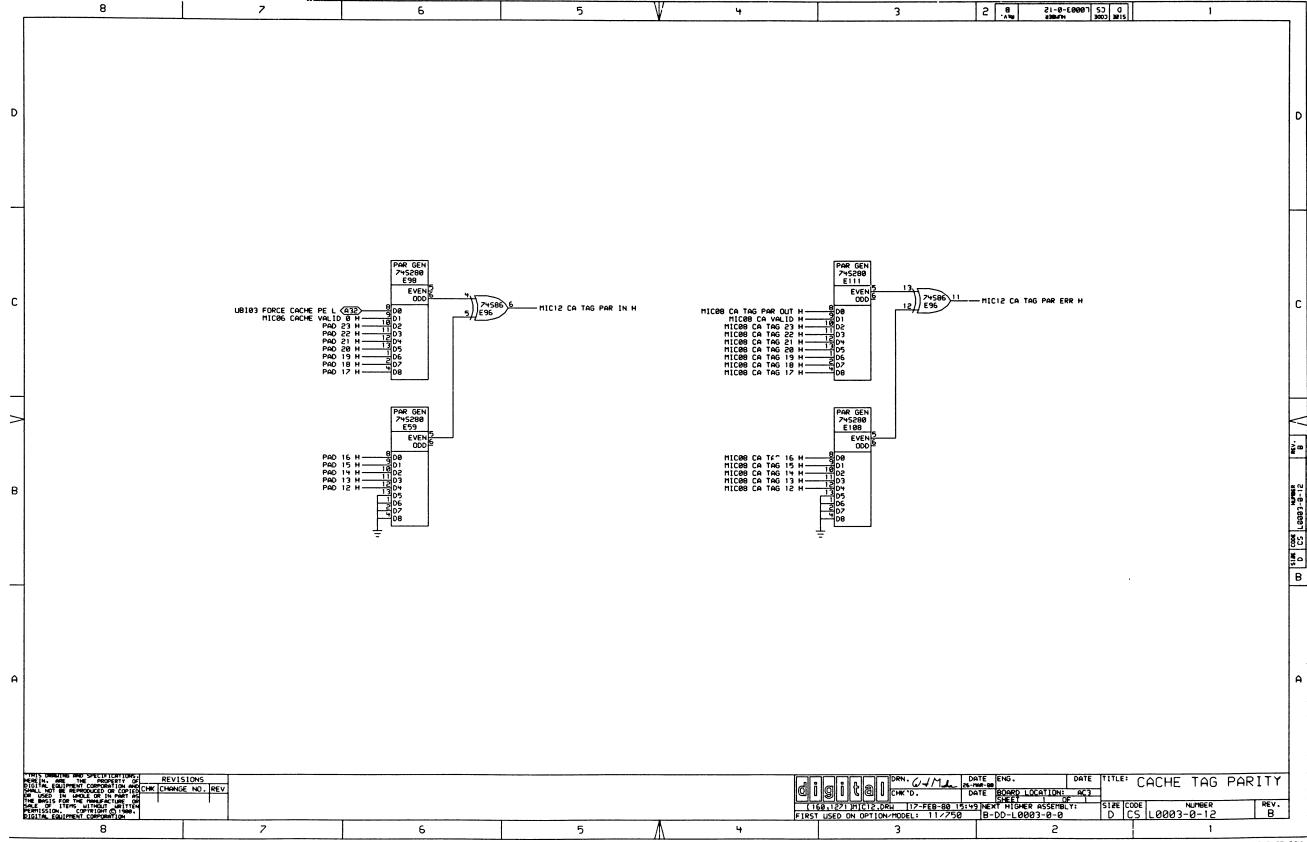


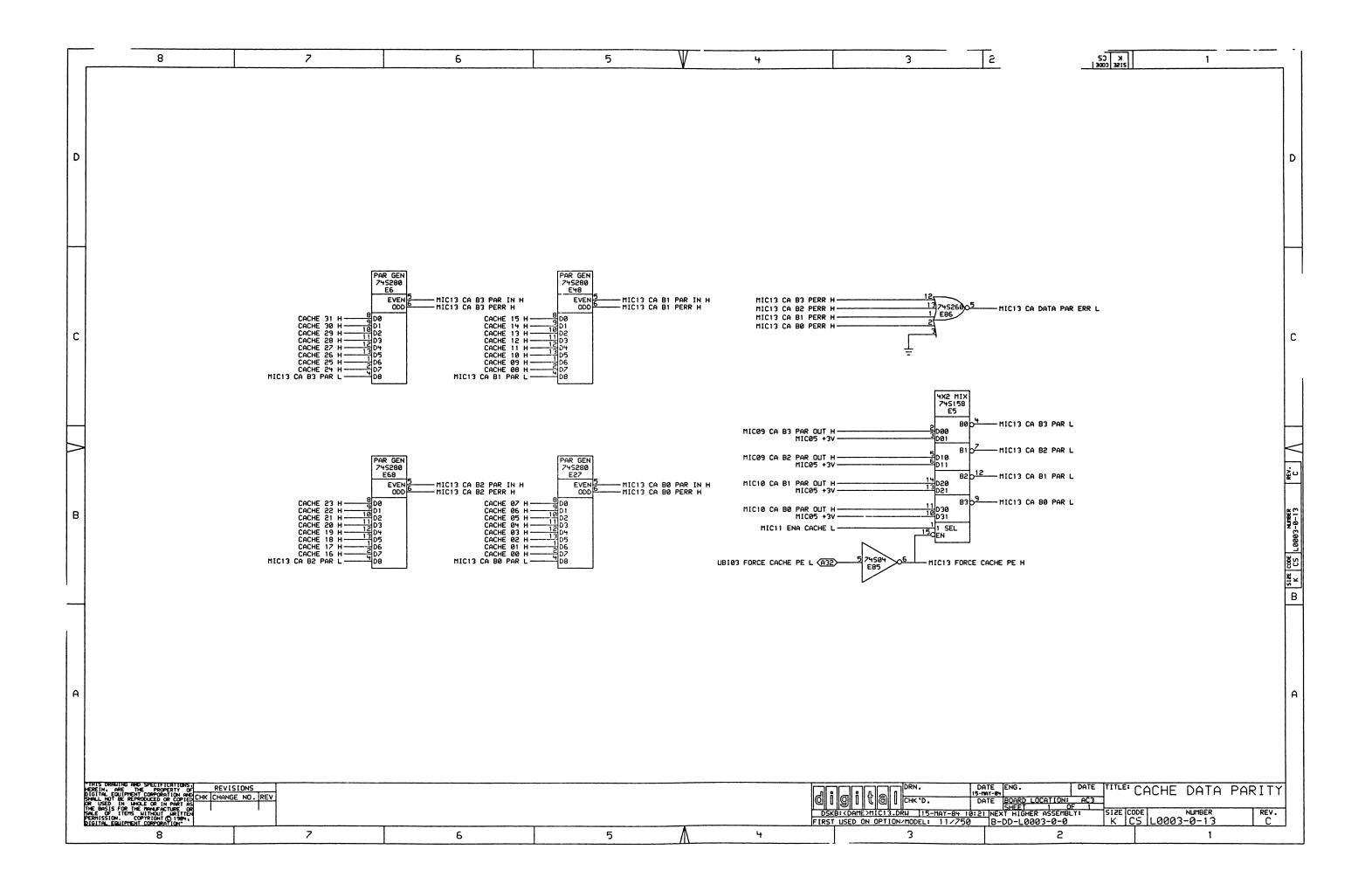


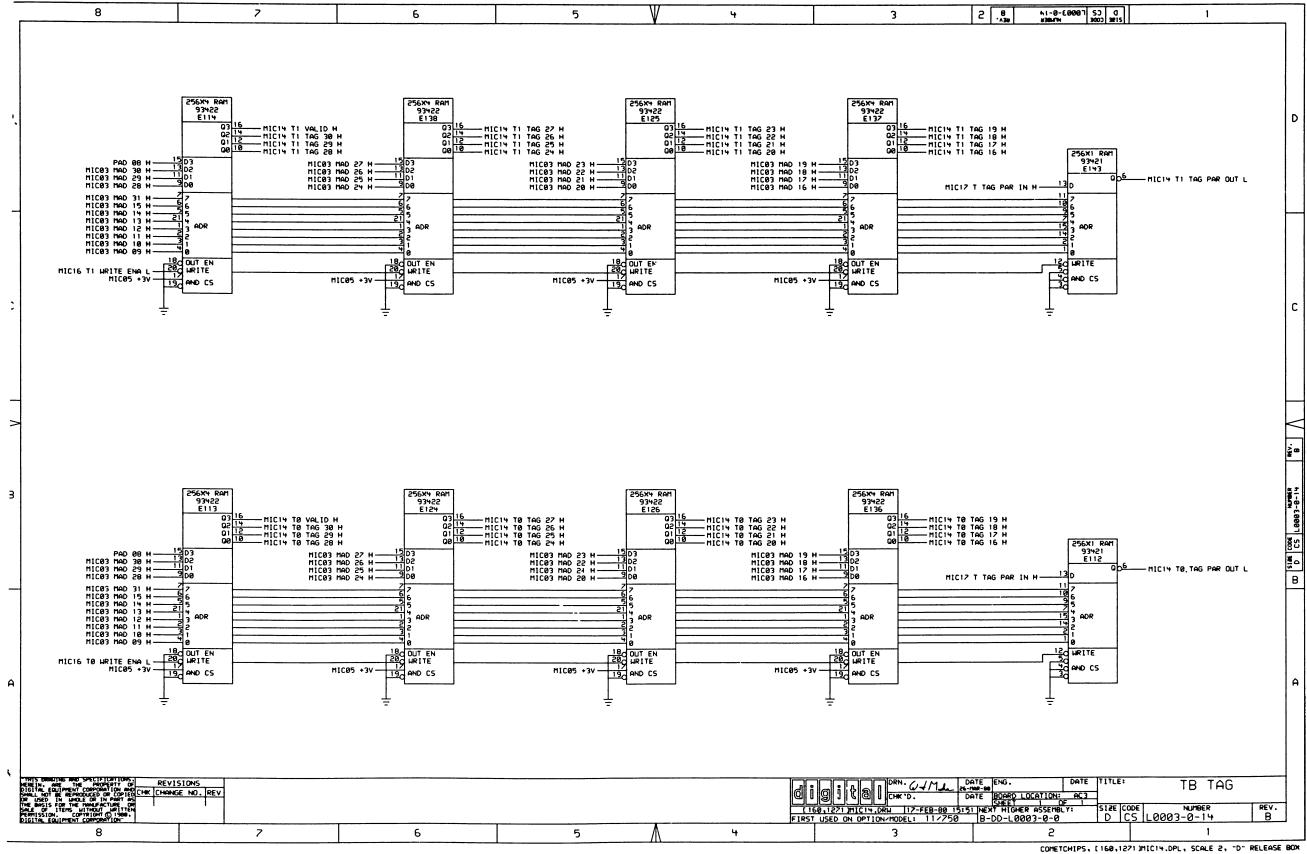


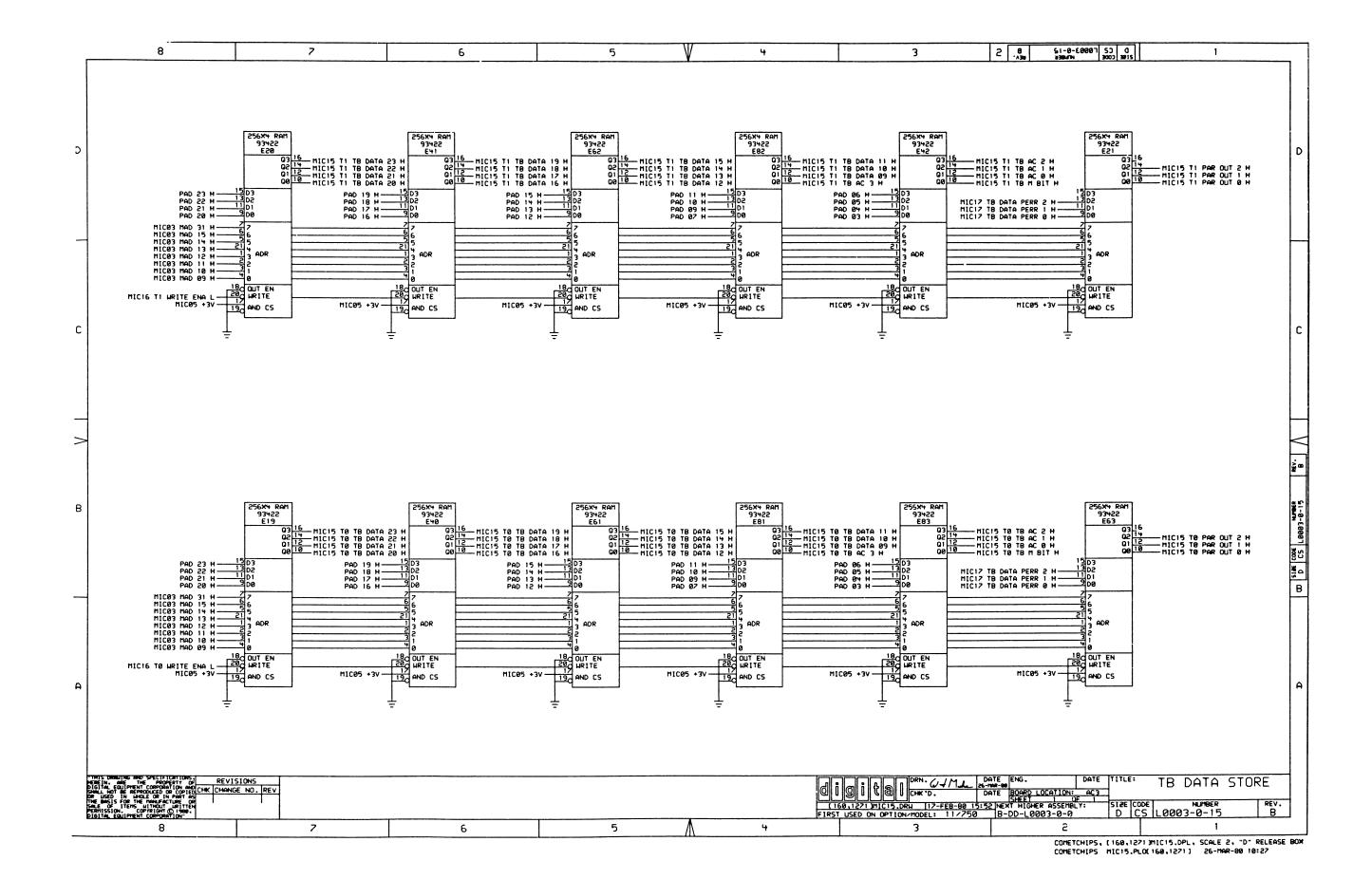


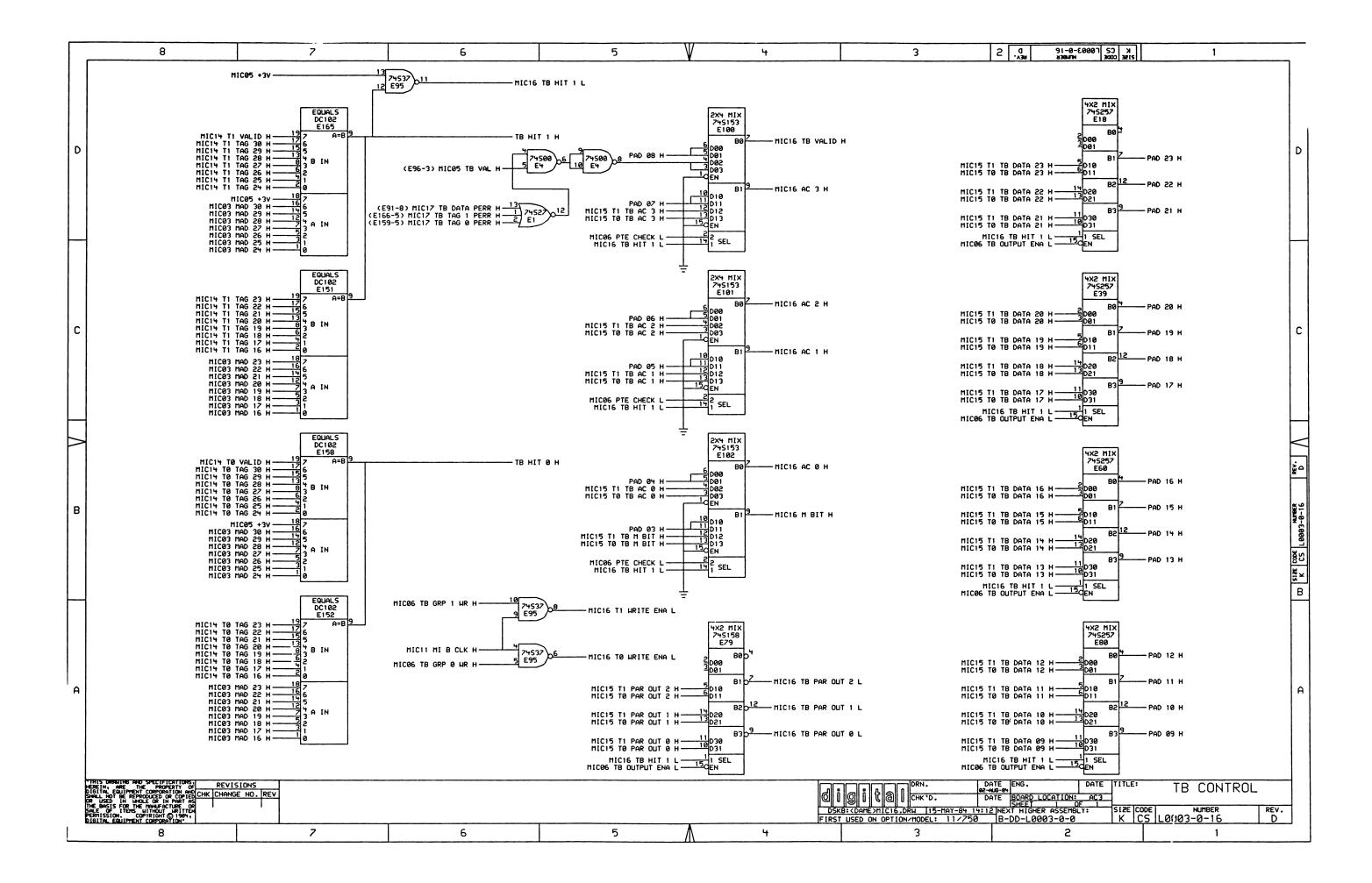


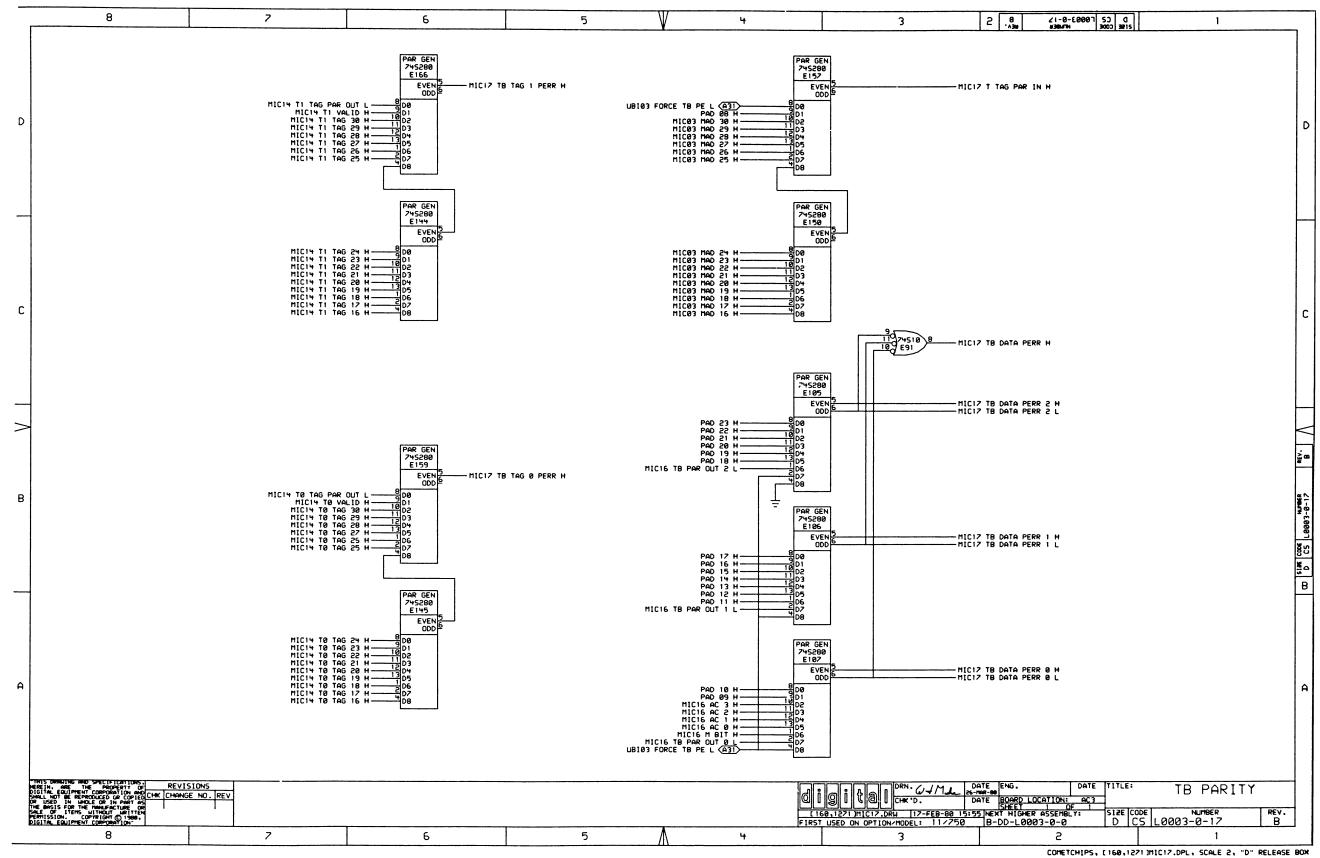


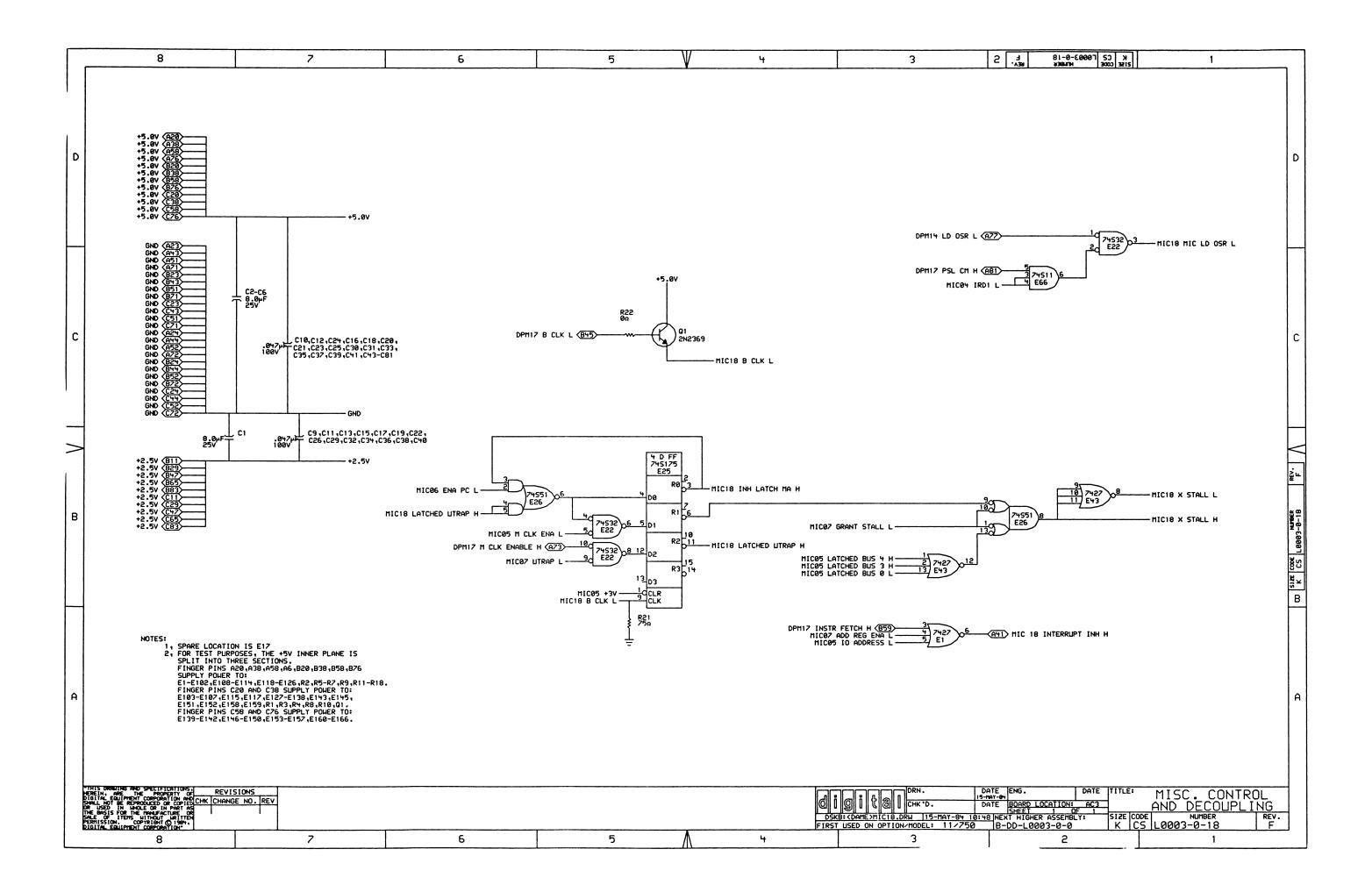




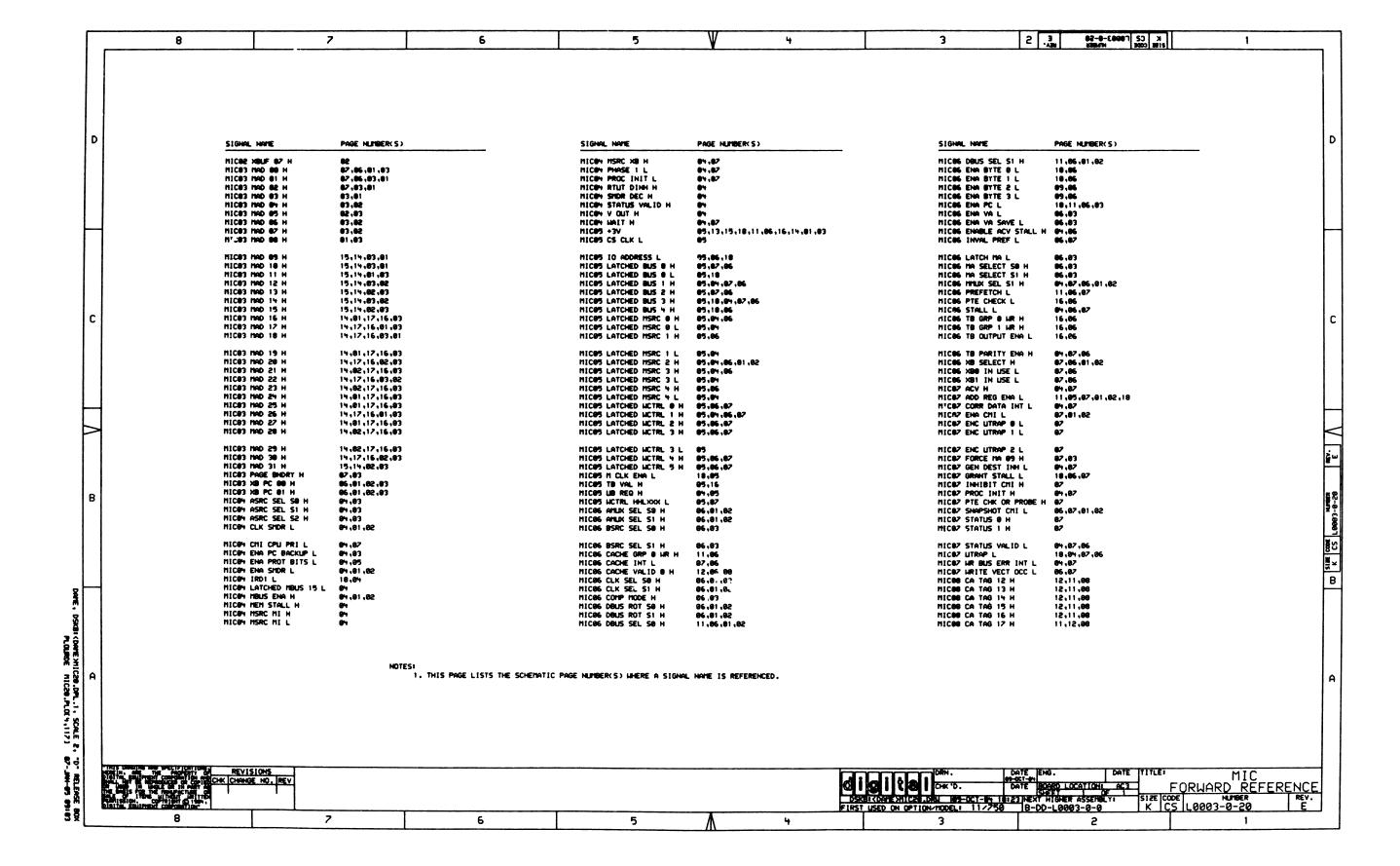


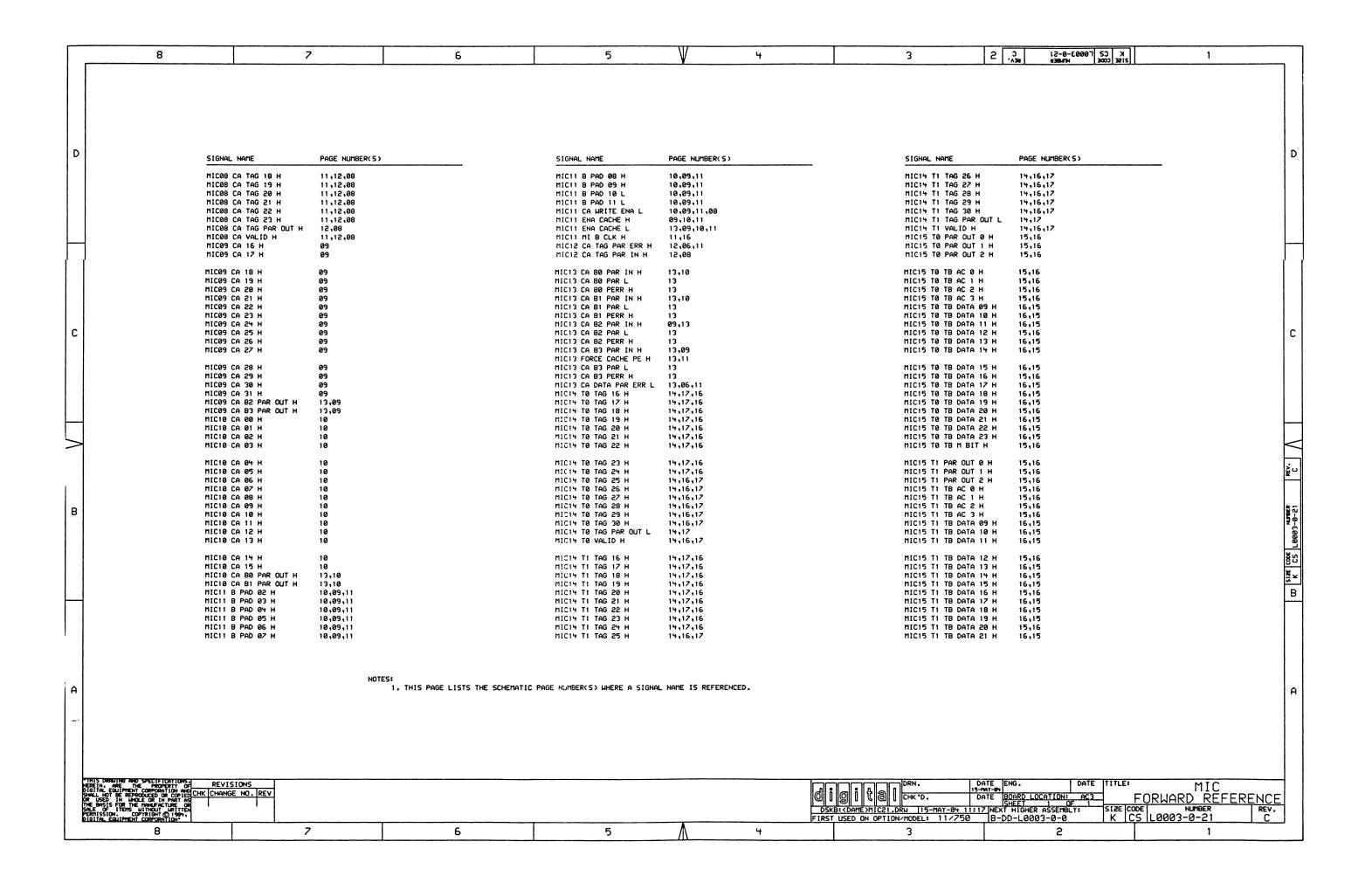


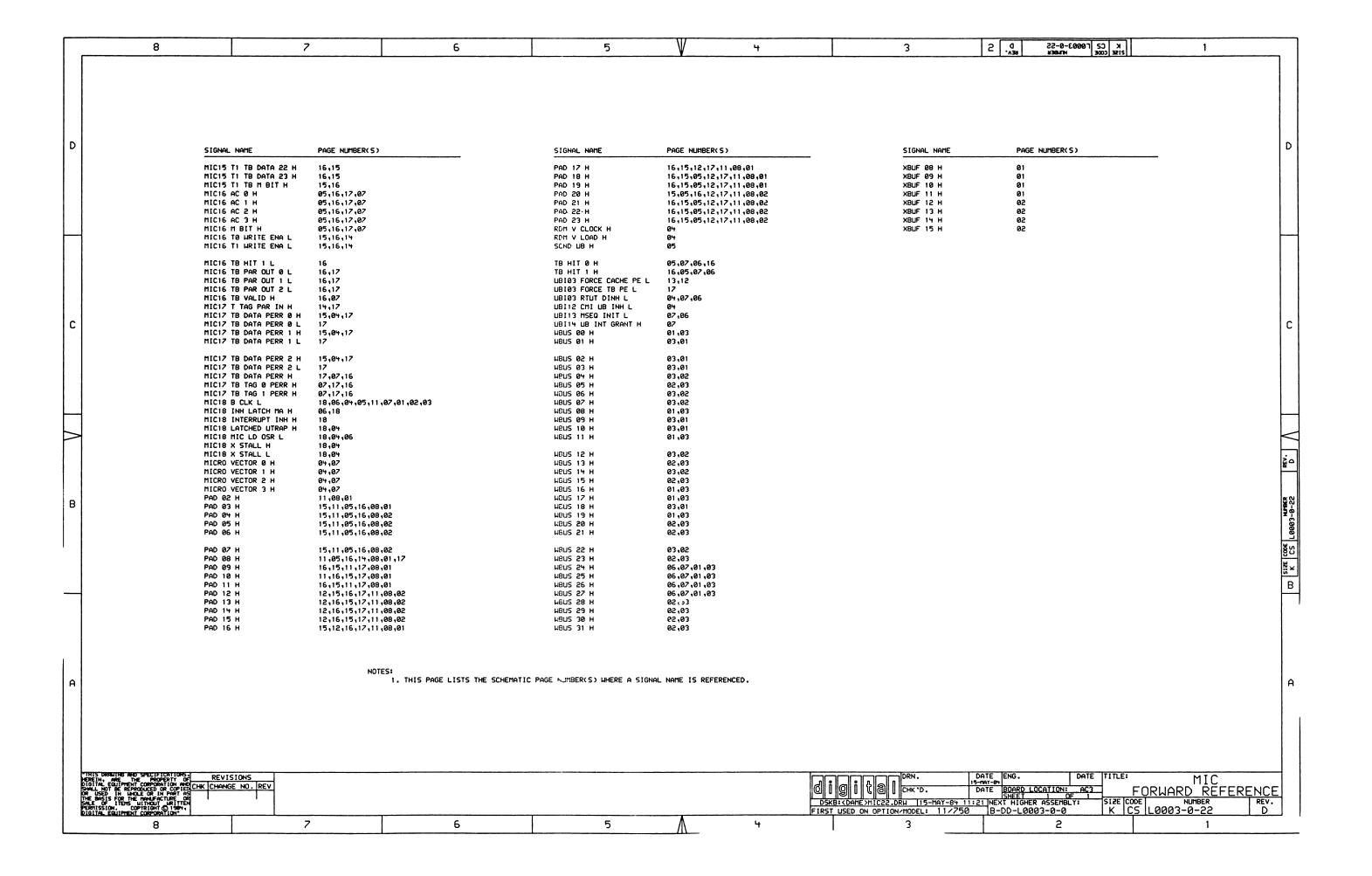


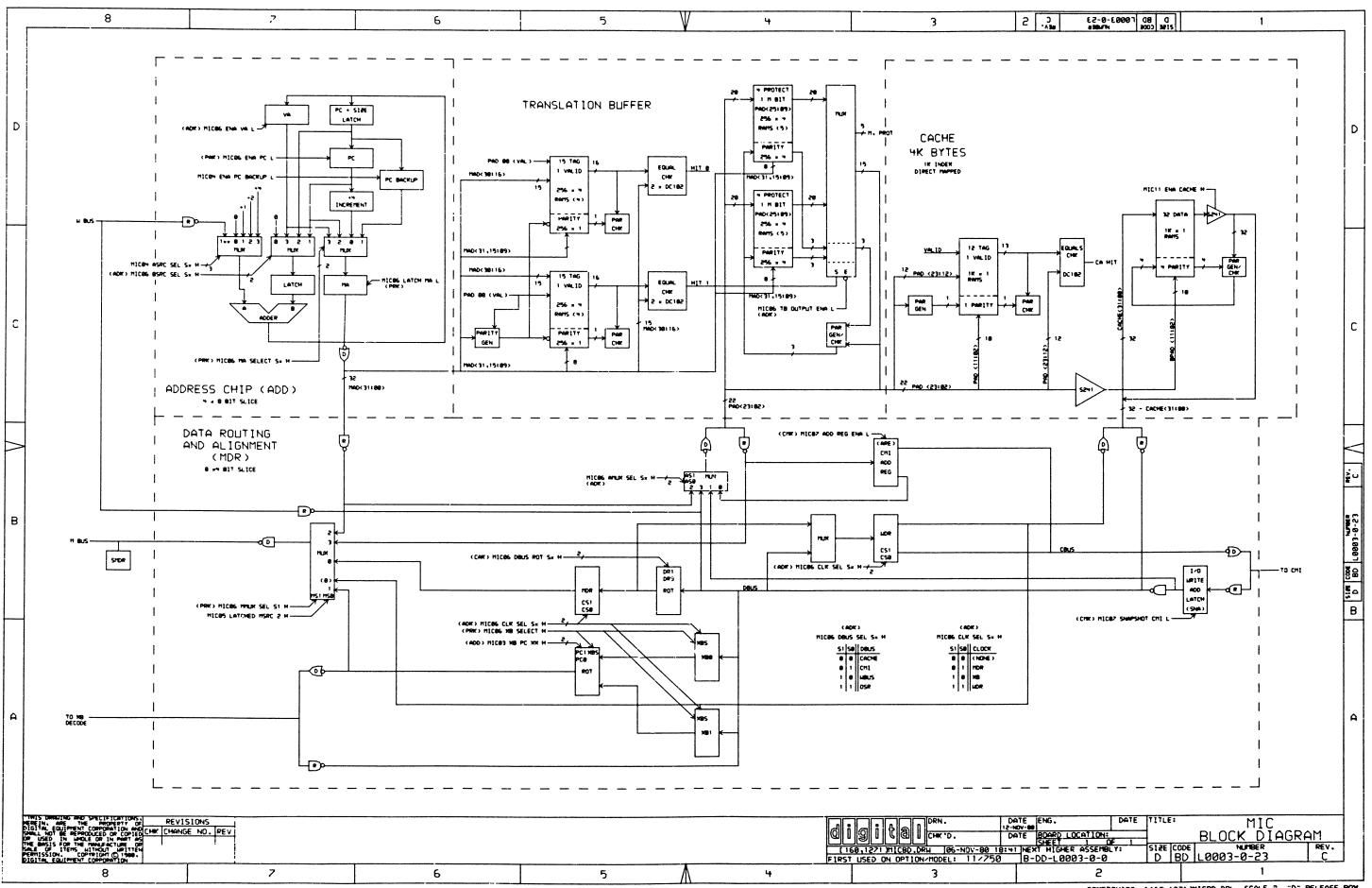


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A	NOTES: 1. THIS PAGE LISTS THE SCHEMATIC PAGE NUMBER(S) WHERE A SIGNAL NAME IS REFERENCED.										A		
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				О	2	/\\		3		C	<u> </u>		









B | DD 7-60007 REV. NUMBER SIZE CODE DRAWING NO. PART NO. **DESCRIPTION REVISIONS** MODULE REVISION DEFHUK UBI DRAWING DIRECTORY lo lElF|H|J|K B-DD-L0004-G 2 UBI UNIT ASSEMBLY -UA-L0004-C-0 2 DEFHJK UBI PARTS LIST CDEEFH C-PL-LOOC4-O-DBP 4 UBI DRILL & ETCH DRAWINGS DDDDFE 6 -MD-5013827-C-0 ETCHED BCARDS 5013827 D lo DDDD D lepslepsl UBI PC DESIGN DATA BASE CALDEC -PC-LCOO4-C-DBC D D D D D EPZEPZ UBI ETCH CUT DRAWINGS CDEFHJK 3 -EC-5013827-C-0 UBI DESIGN DATA BASE SUDS CDEFHJK -CS-L0004-0-DBS TCY OFFSET MEMORY CkICIDIDIDIE -CS-L0004-0-1 1 CCCDD -CS-L0004-0-2 TIME OF YEAR CLOCK 1 ATCH-PAR-GEN HELP- SIGNALS CDDEE 1 -CS-LC0C4-0-3 CCCCD -CS-L0004-0-4 1 UBUS RESISTOR PACKS CUI - UBUS ADDRESS 1 CF 2 ccccc -CS-L0004-0-5 1 CCCCC CUI - UBUS ADDRESS 2 CF 2 D-CS-LC004-C-6 1 1 DATA PATH 1clclclclc D-CS-LG004-0-7 CCCCD 1 CUI MAP D-CS-L0004-0-8 CUI MAP DECODE CCCCC 1 D-CS-L0C04-0-9 CCDDE 1 CONTROL LOGIC)-CS-L0004-0-1**0** $C \mid C \mid C \mid C \mid C \mid D$ D-CS-L0004-C-11 CUI CONTROL ROM CONSOLE INTERFACE D-CS-L0004-0-12 1 UBUS CONTROL CcCDDDD 1 D-CS-L0004-0-13 AC - DC LC MSEQ INIT D-CS-L00C4-C-14 Cc DEFHH INT & ID LOGIC RCM INTERFACE D-CS-L0004-0-15 1 ClalcipidiDid D-CS-10004-0-16 1 |* FORWARD REFERENCE **NOTES:** 미메메피키노 * CONTROL SOURCE IS THE SUDS DATA BASE тwoo1 Тwфф2 Тwфф4 Тwфф4 Тwф05 REVISIONS CHG NO. NO CONTROLLED PAPER CRIGINALS EXIST ALL DOCUMENTATION WAS RELEASED AT REVISION 'C' 9-80 9-80 18-7 18-11 19-11 5-83 TITLE DRN. USED ON OPTION/MODEL CASEY "THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PRO-11/750 PERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL CHK'D UBI J.CASEY NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN

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of 3

NUMBER

L0004-0

REV.

K.

B DD

SHEET 1

ENG. S. SITTH

V. PARKER

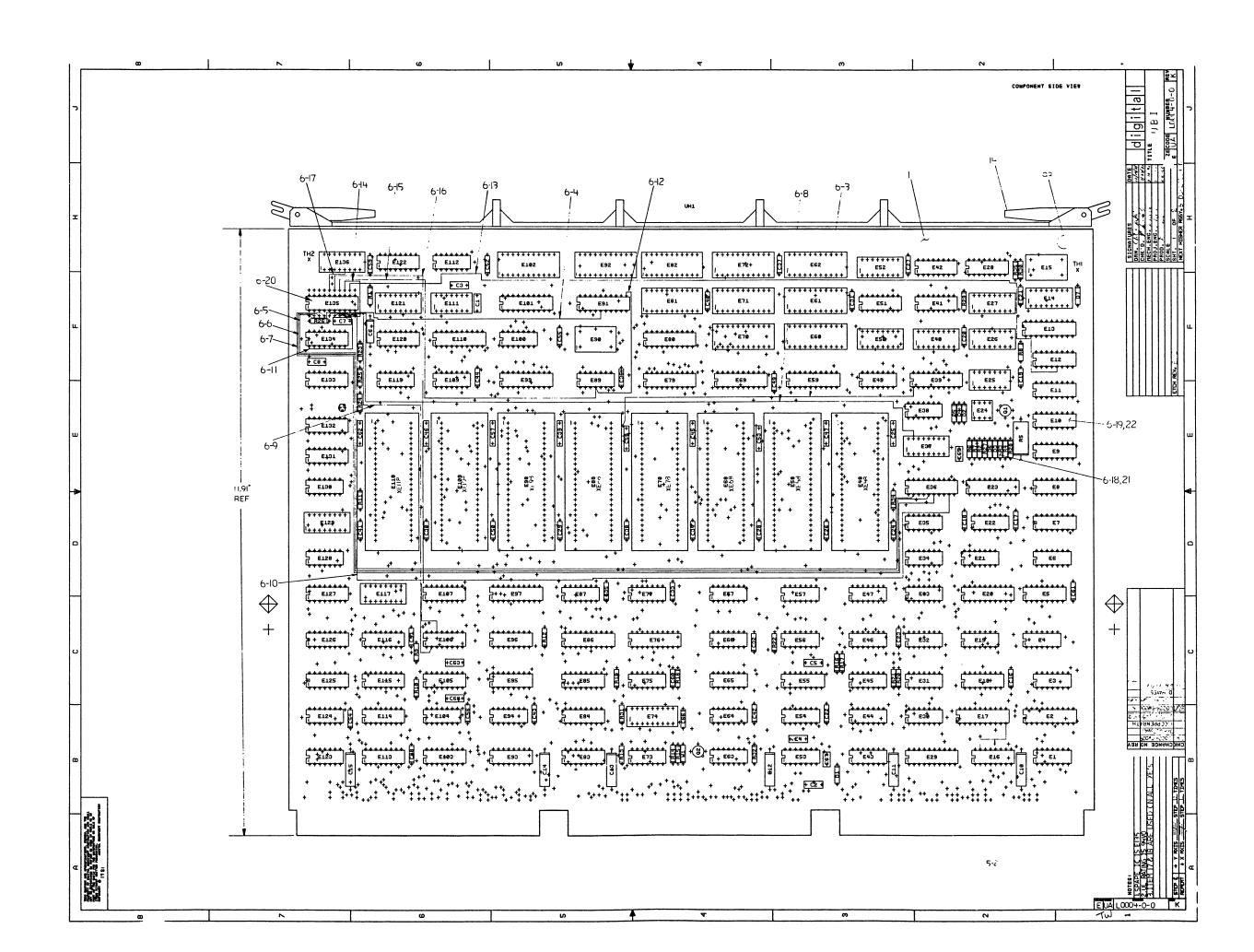
B DD size code NUMBER DRAWING NO. OF PART NO. **DESCRIPTION REVISIONS** D-CS-L0004-0-17 FORWARD REFERENCE DDEFFH D-CS-L0004-0-18 FORWARD REFERENCE D-CS-L0004-C-19 cCCC FORWARD REFERENCE D-BD-L0004-0-20 UBI BLOCK DIAGRAM UBI MICROCODE LISTING c C C C C C (-MP-LCC04-0-21 26 K-MC-L0004-0-0 CCCC UBI MICROCODE TAPE NOTES: * CONTROL SCUPCE IS THE SUPS DATA PASE REV. NC CONTROLLED PAPER ORIGINALS EXIST ALL DOCUMENTATION WAS RELEASED AT REVISION 'C' DRN. J. CASEY USED ON OPTION/MODEL 11/750 TITLE "THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL CHK'D UB I J. CASEY NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. B DD ENG. S. SMITH NUMBER REV. L0004-0 K PROD. V. PARKER COPYRIGHT® 1981 DIGITAL EQUIPMENT CORPORATION SHEET 2 OF 3

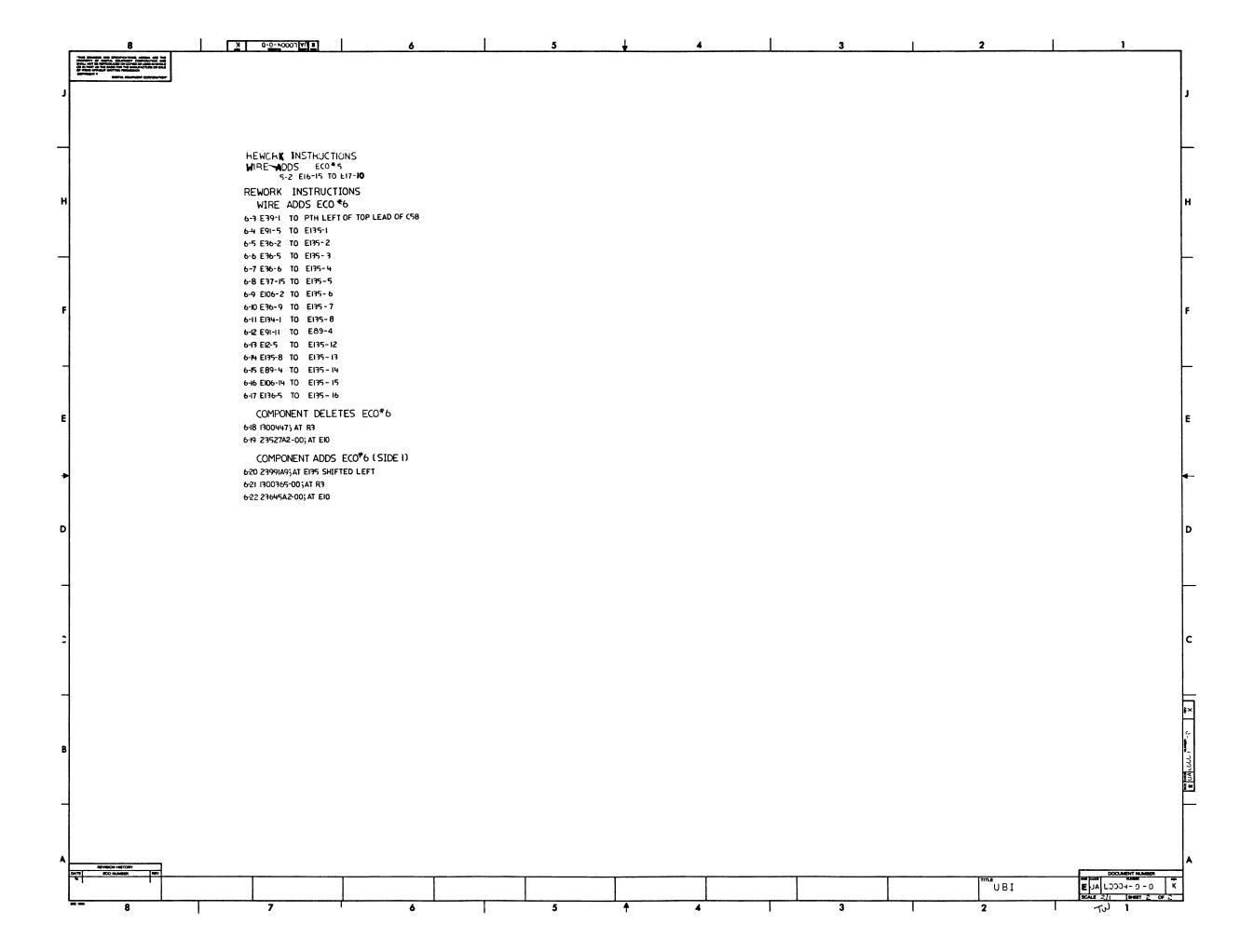
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B DD size code NUMBER DRAWING NO. PART NO. **DESCRIPTION REVISIONS** E-UA-L0004-0-0 UBI UNIT ASSEMBLY UBI PARTS LIST K-PL-L0004-0-DBP 3 E-EC-5013827-0-0 3 UBI ETCH CUT DRAWINGS K-CS-L0004-0-DBS UBI DESIGN DATA BASE SUDS D-CS-L0004-0-1 TOY OFFSET MEMORY D-CS-L0004-0-2 TIME OF YEAR CLOCK D D-CS-L0004-0-3 LATCH-PAR-GEN HELP-SIGNALS D-CS-L0004-0-4 UBUS RESISTOP PACKS D-CS-L0004-0-5 CUI-UBUS ADDRESS | OF 2 D-CS-L0004-0-6 CUI-UBUS ADDRESS 2 OF 2 D-CS-L0004-0-7 DATA PATH D-CS-L0004-0-8 CUI MAP D-CS-L0004-0-9 CUI MAP DECODE DI D-CS-L0004-0-10 CONTROL LOGIC D-CS-L0004-0-11 CUI CONTROL ROM D-CS-L0004-0-12 CONSOLE INTERFACE DI DI D-CS-L0004-0-13 UBUS CONTROL D-CS-L0004-0-14 AC-DC LO MSEQ INIT D-CS-L0004-0-15 INT AND ID LOGIC ROM INTERFACE D-CS-L0004-0-16 FORWARD REFERENCE DI D-CS-L0004-0-17 FORWARD REFERENCE FI D-CS-L0004-0-18 FORWARD REFERENCE D-CS-L0004-0-19 FORWARD REFERENCE REV. **NOTES:** REVISIONS DATE CHG NO. *CONTROL SOURCE IS THE SUDS DATA BASE NO CONTROLLED PAPER ORIGINALS EXIST DRN.B. PELLICCIA TITLE USED ON OPTION/MODEL 26 APR 84 "THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PRO-U. B. I. PERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL 11/750 CHK'D, CASEY NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF SIZE CODE ENG. S. SMITH NUMBER REV. ITEMS WITHOUT WRITTEN PERMISSION. B DD K L0004-0 PROD. V. PARKER COPYRIGHT® 1984 DIGITAL EQUIPMENT CORPORATION SHEET 3 OF 3

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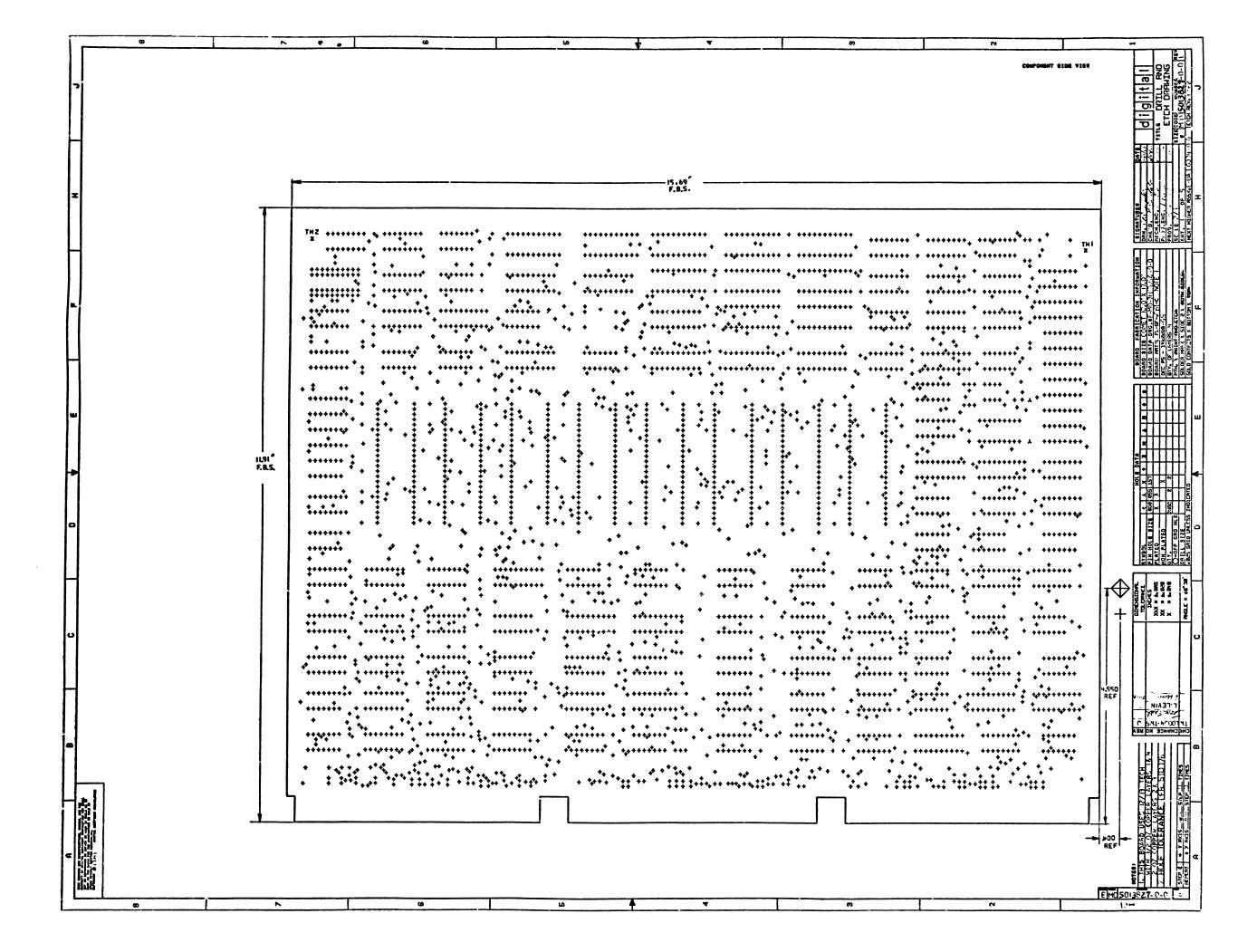


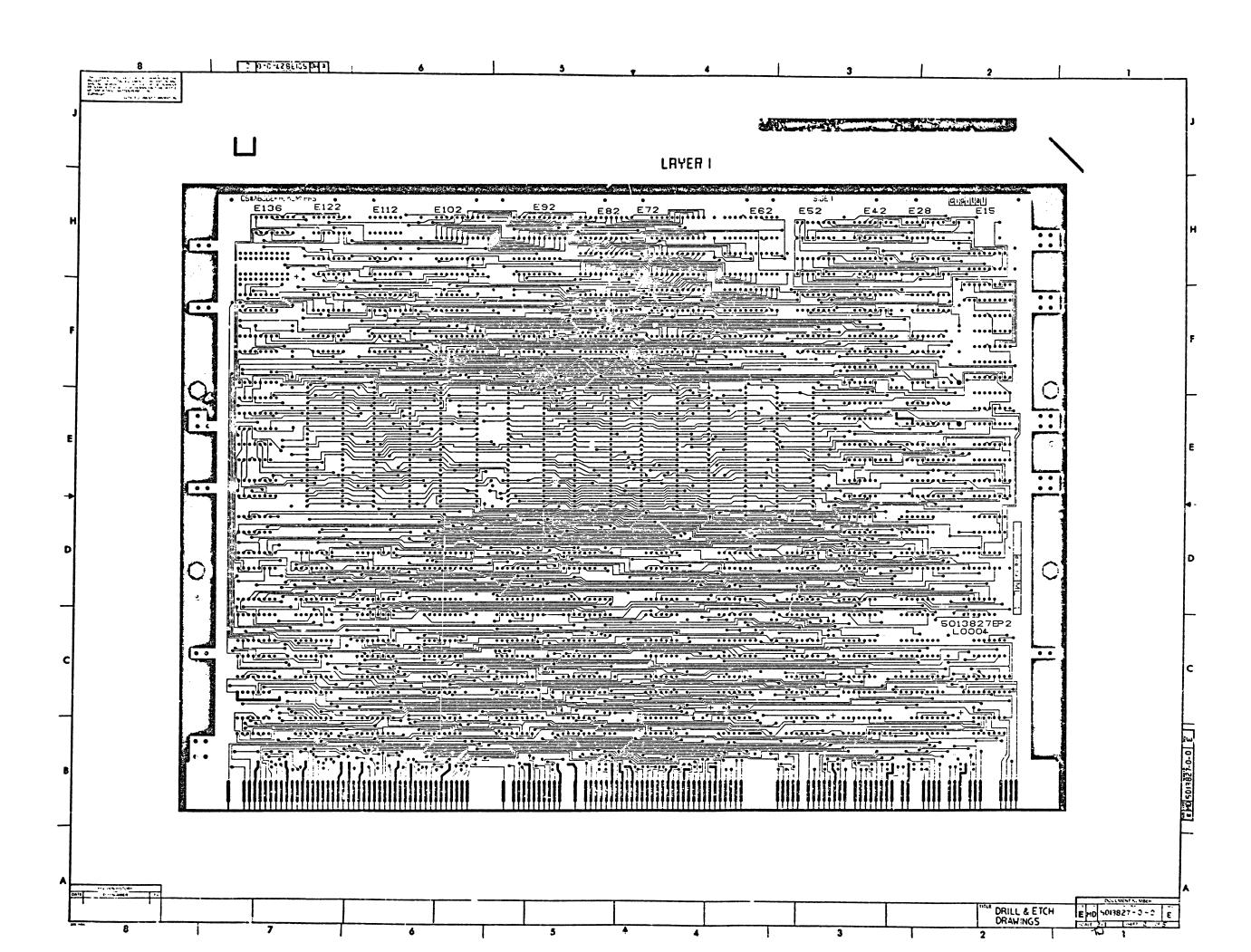
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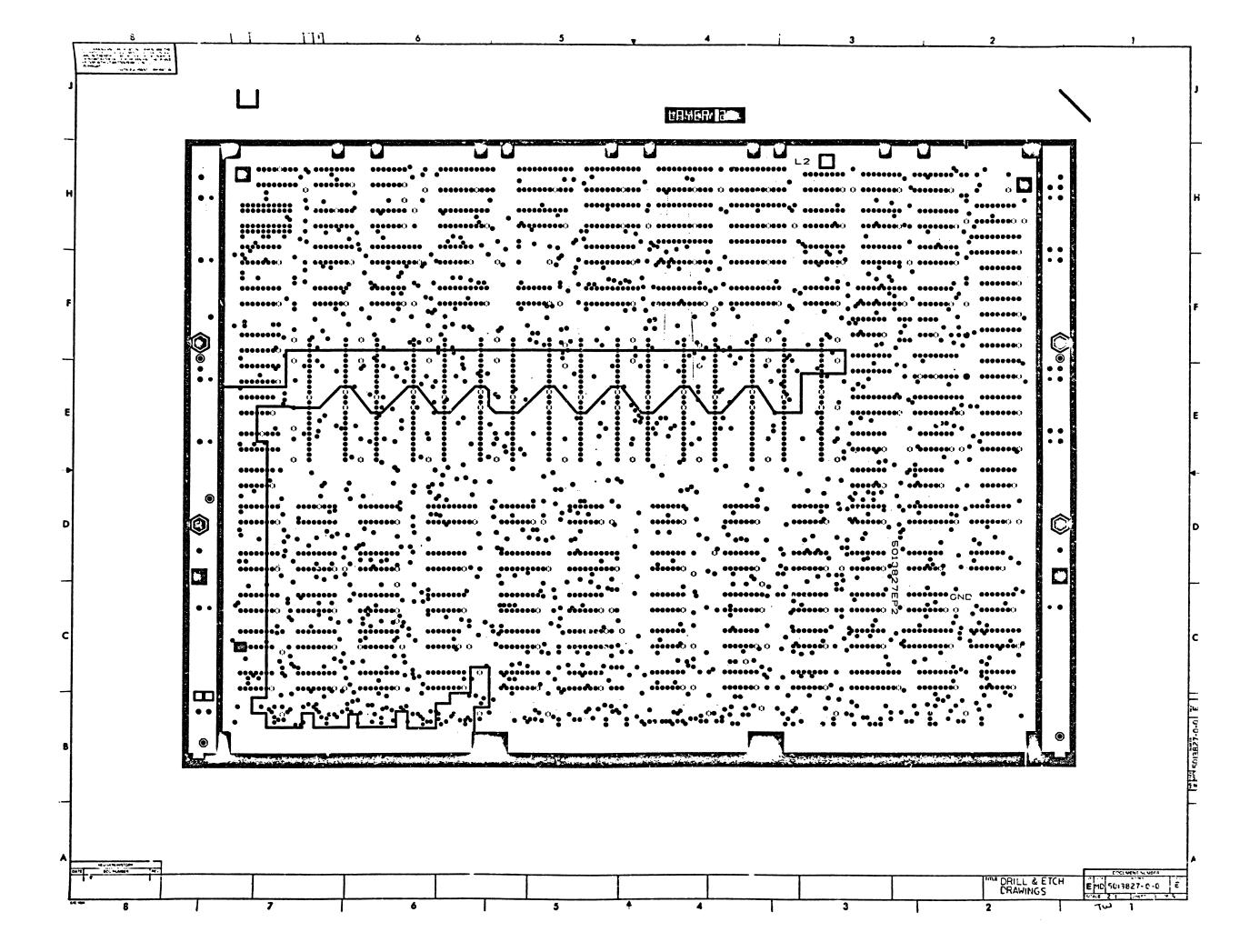
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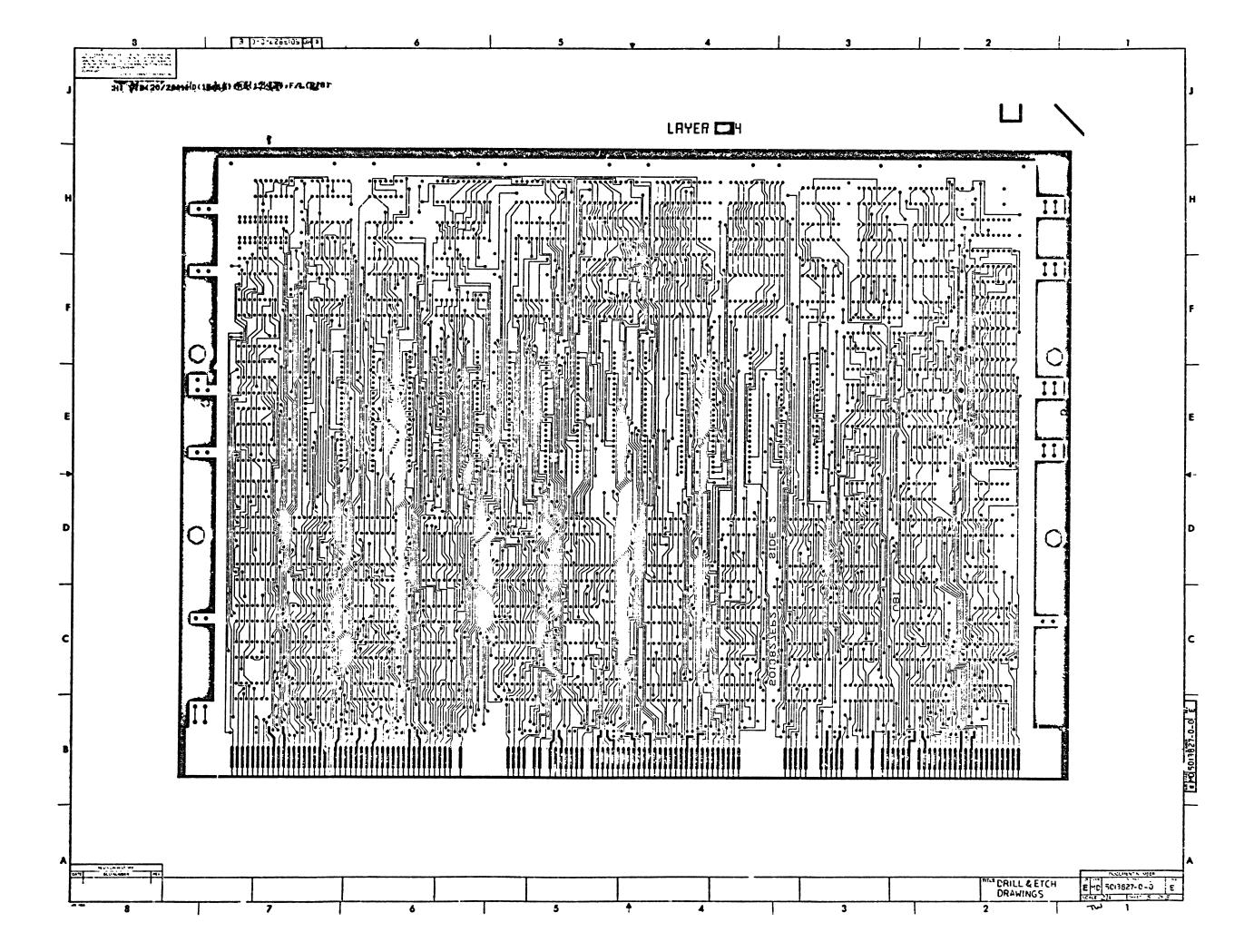
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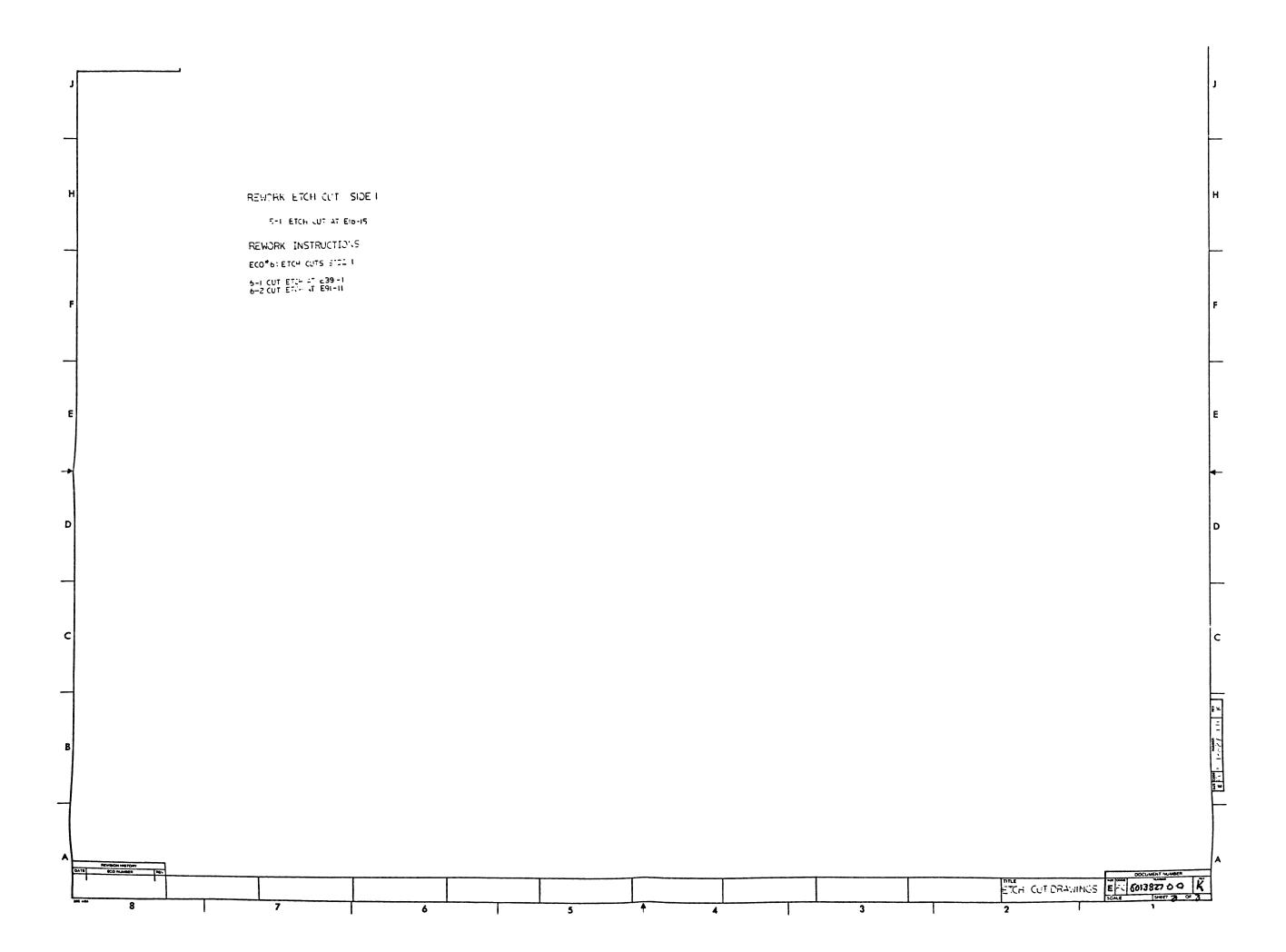
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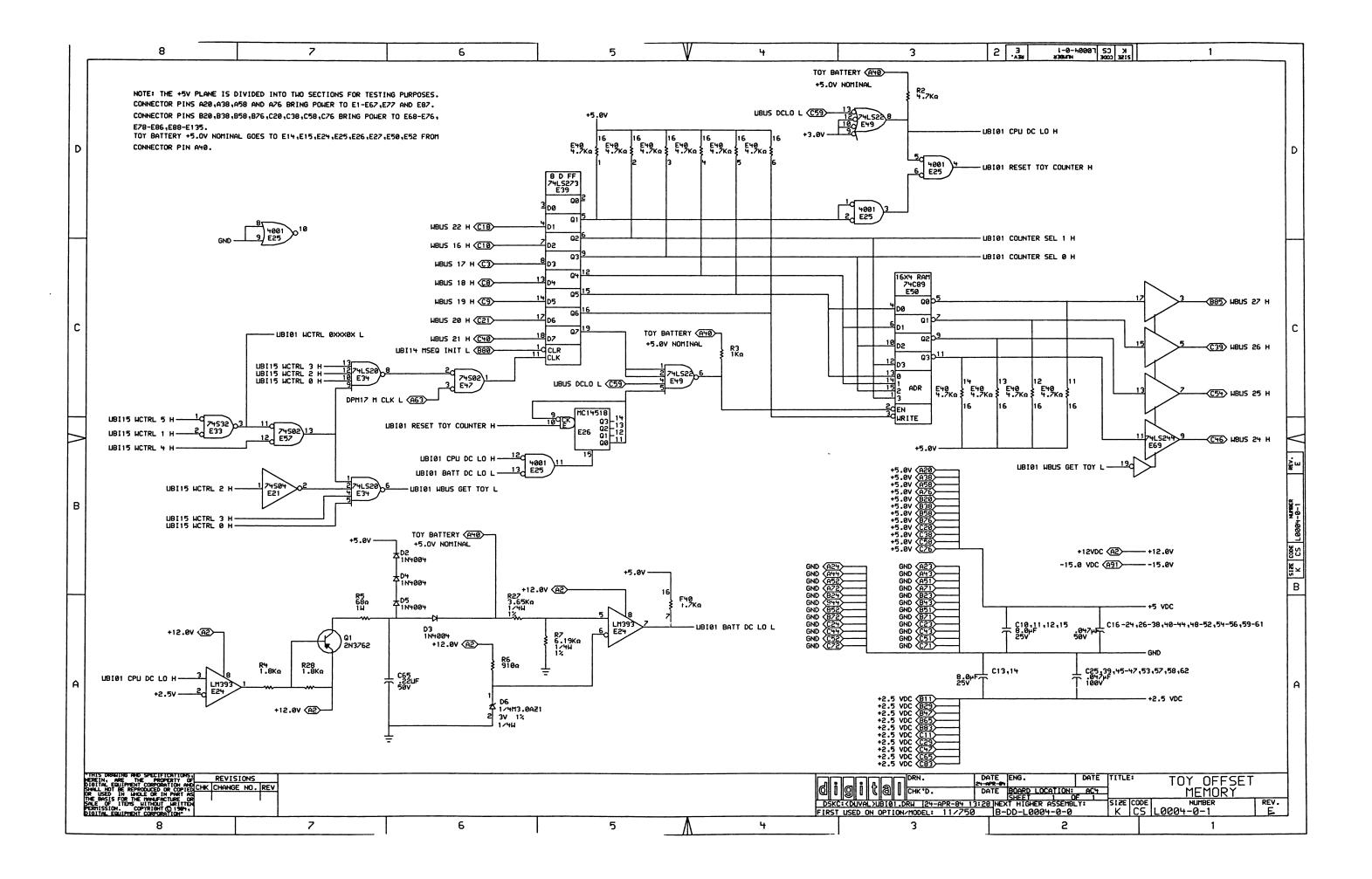
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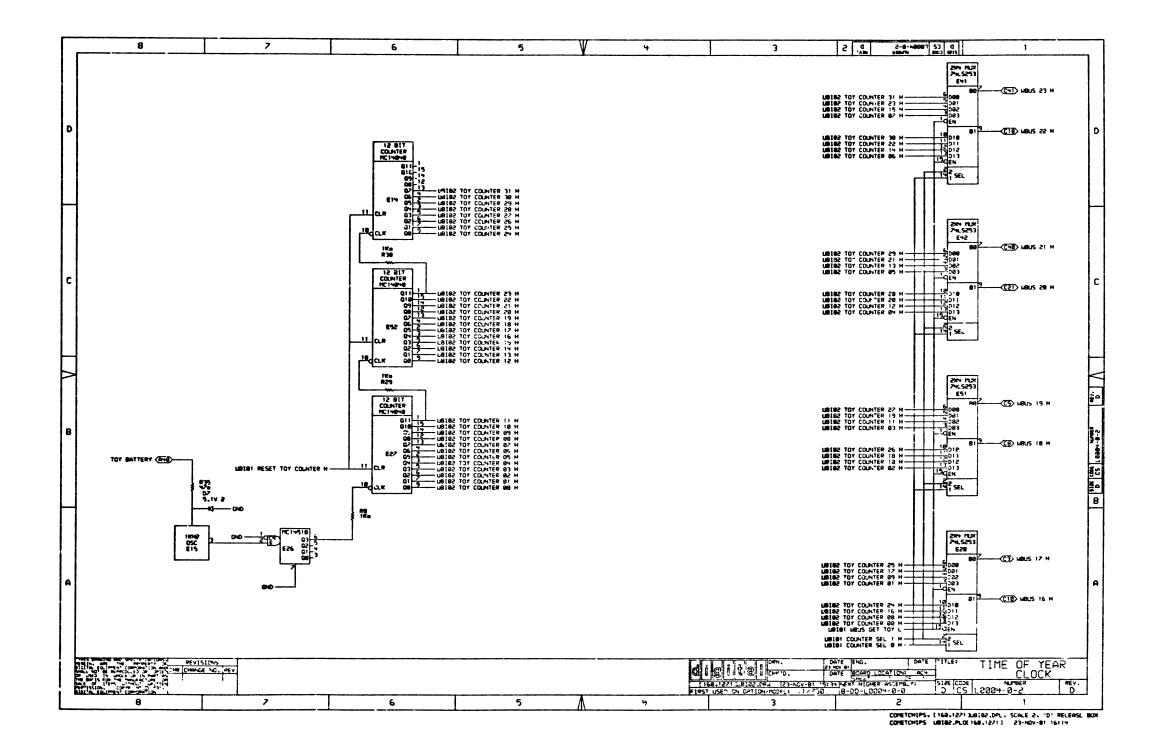
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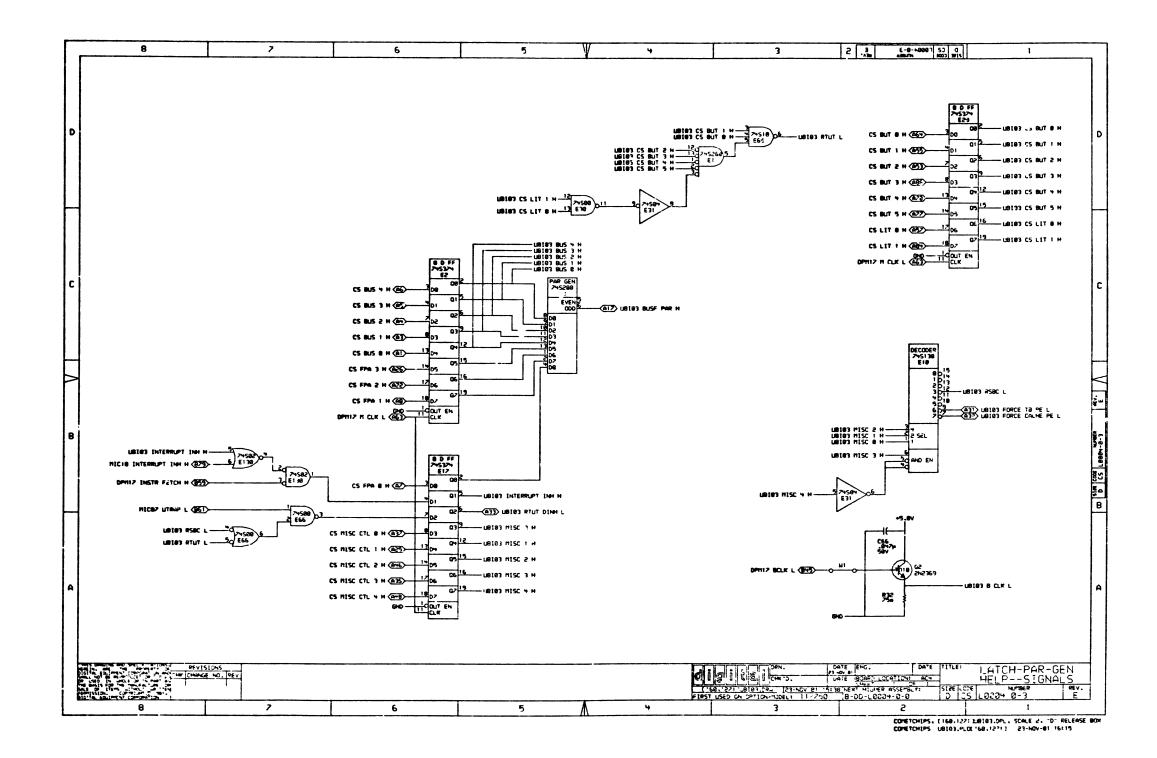
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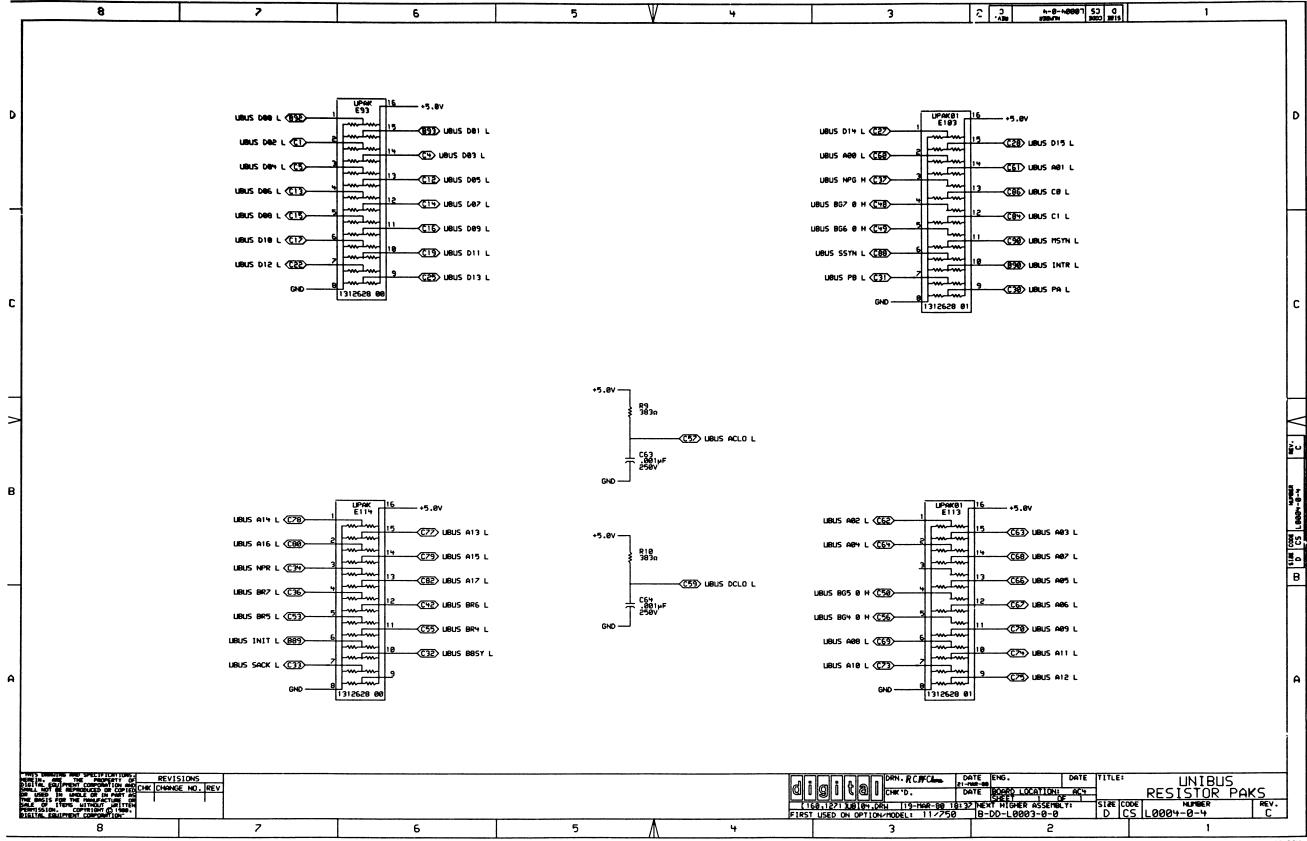
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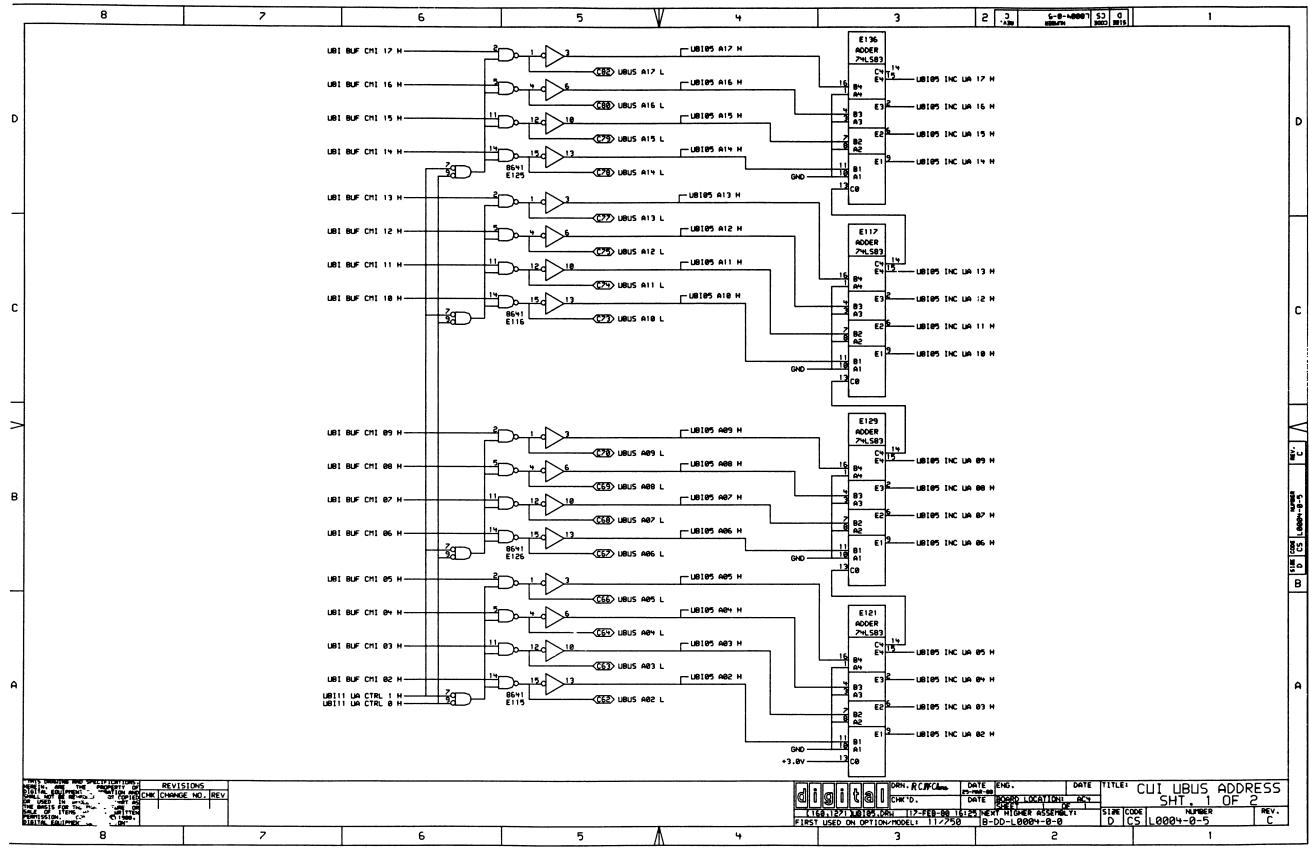


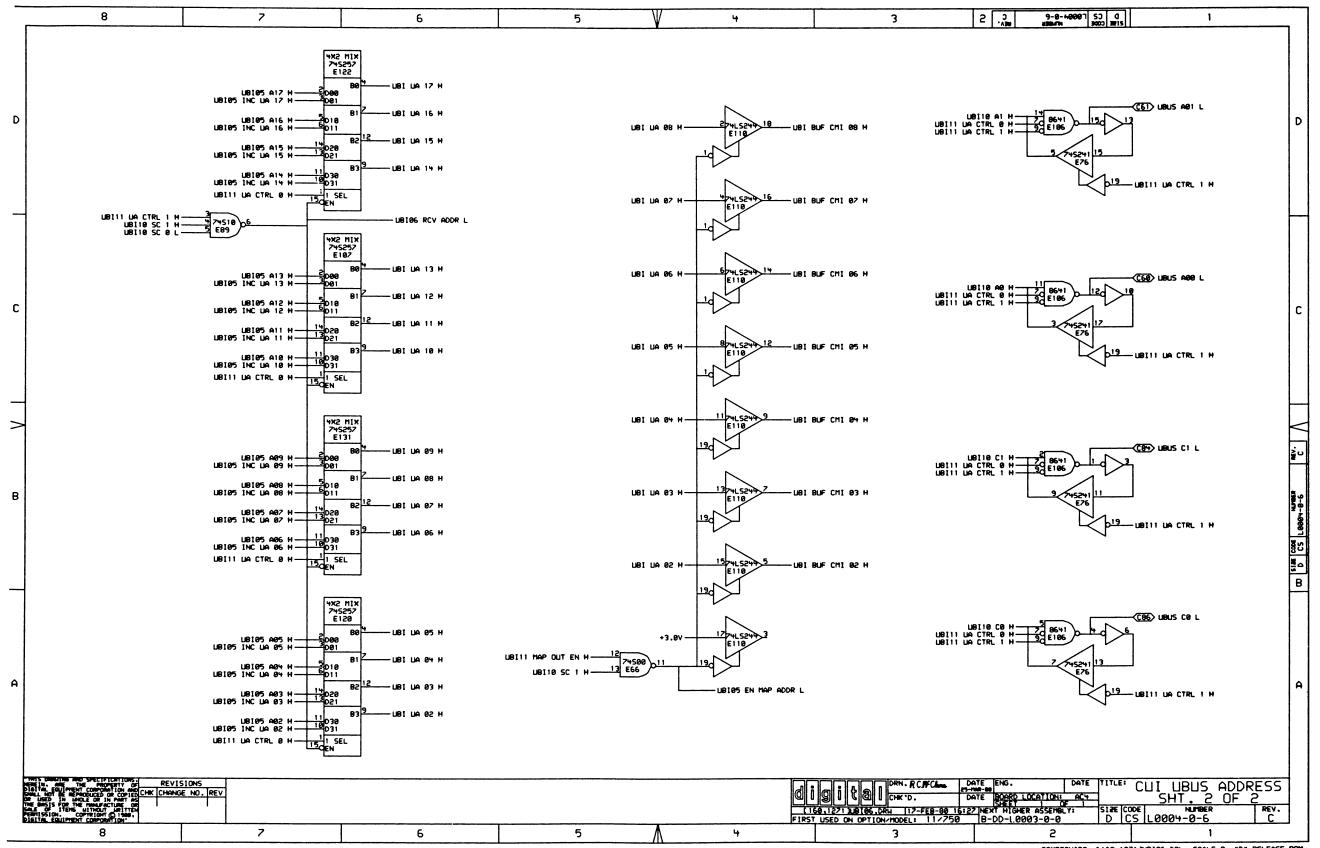


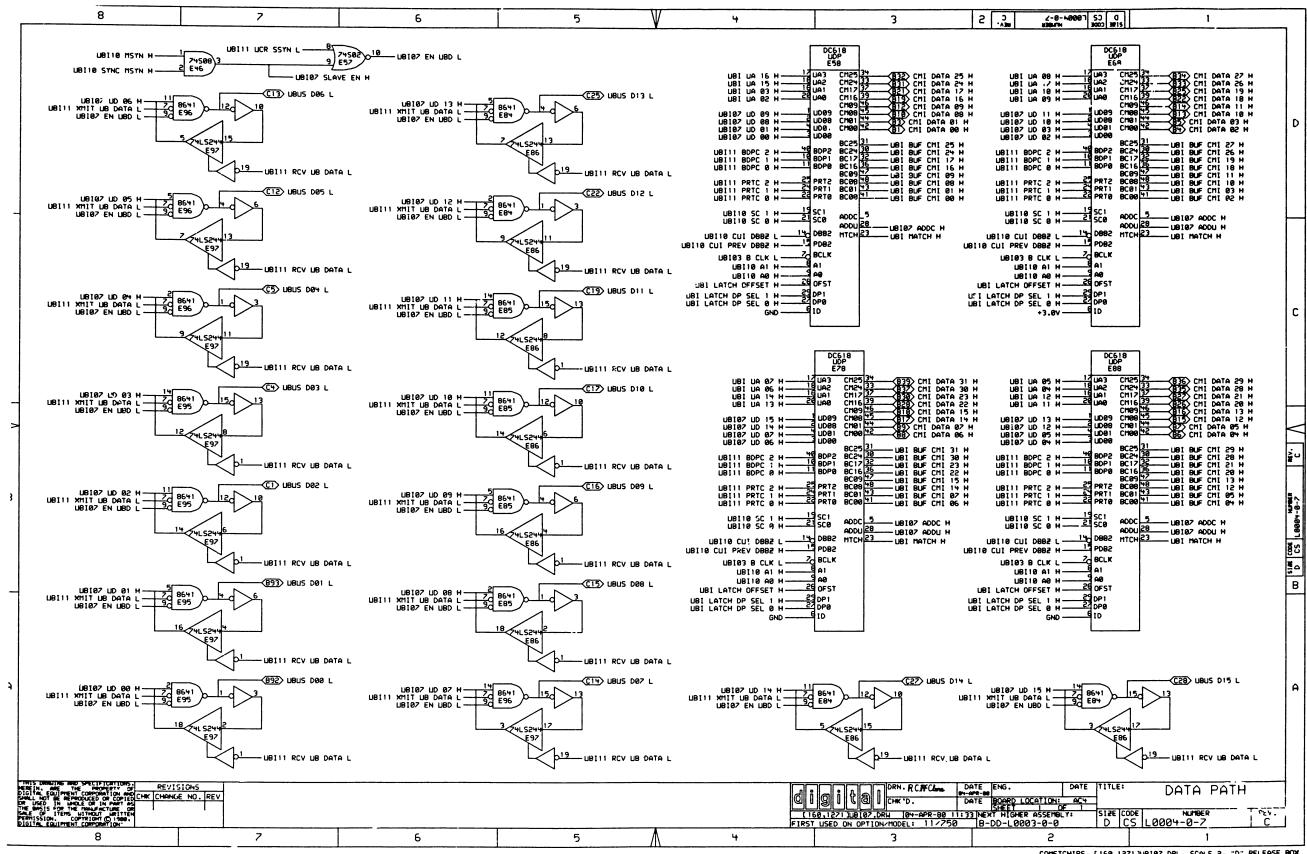


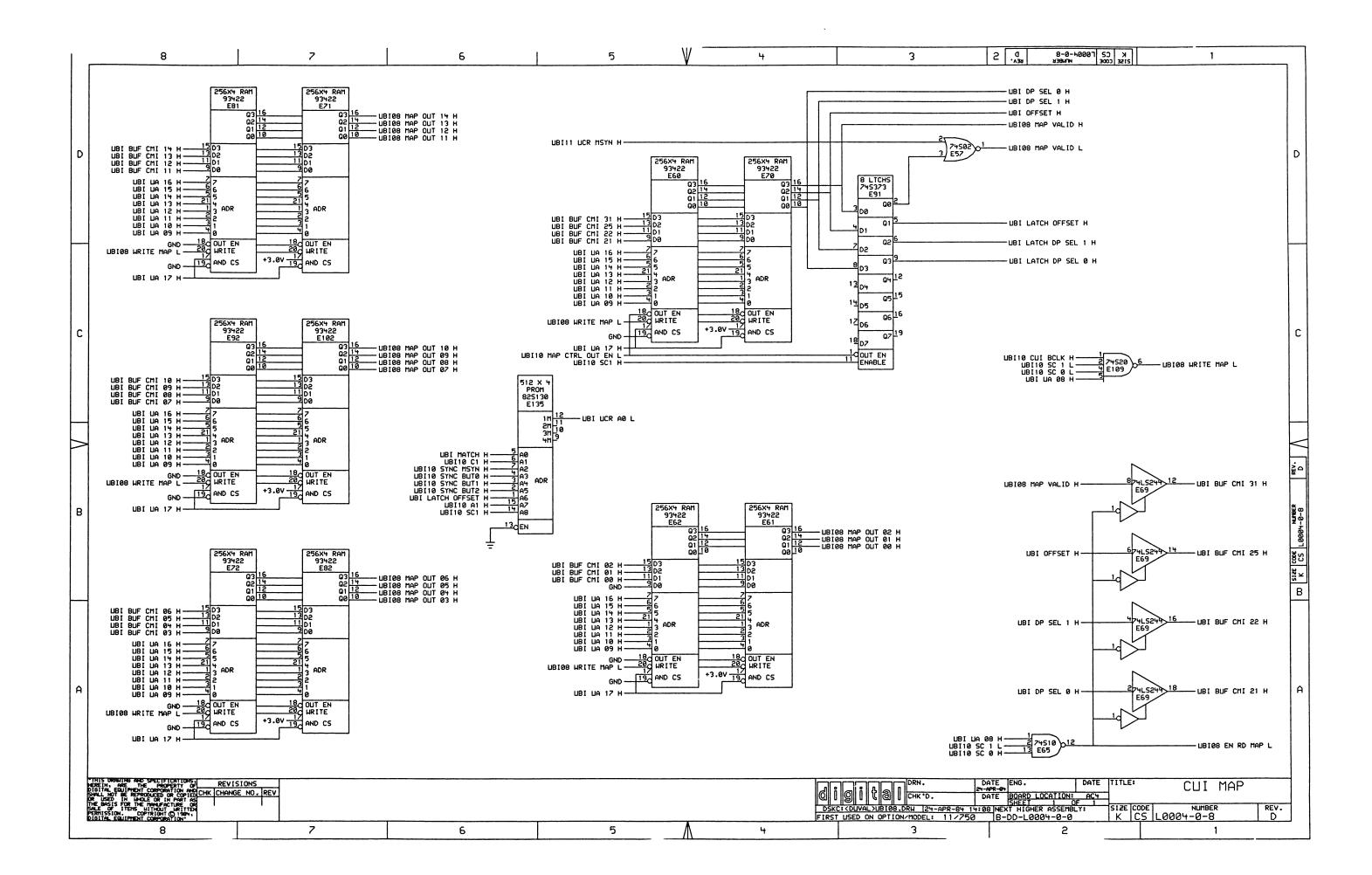


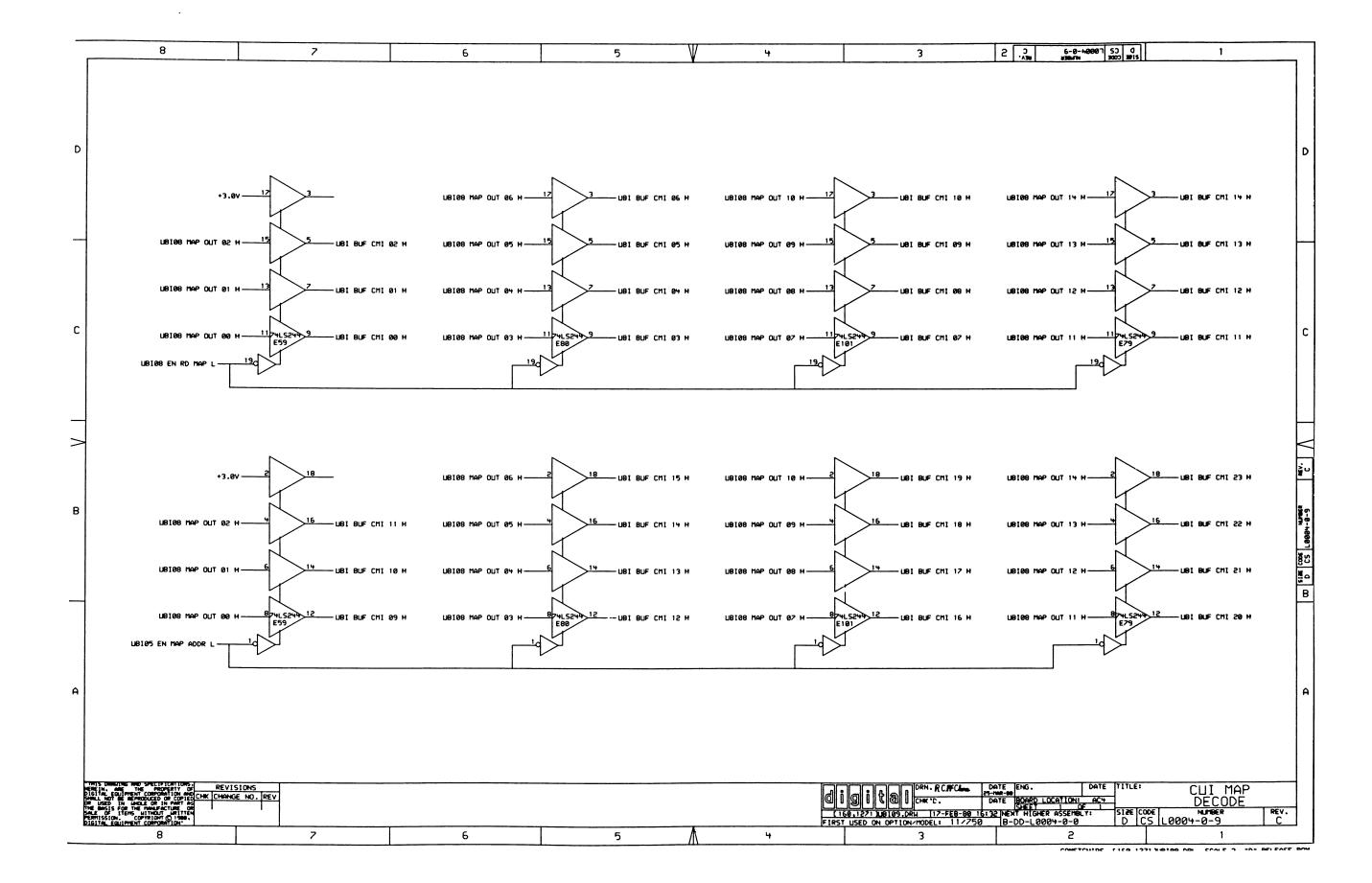


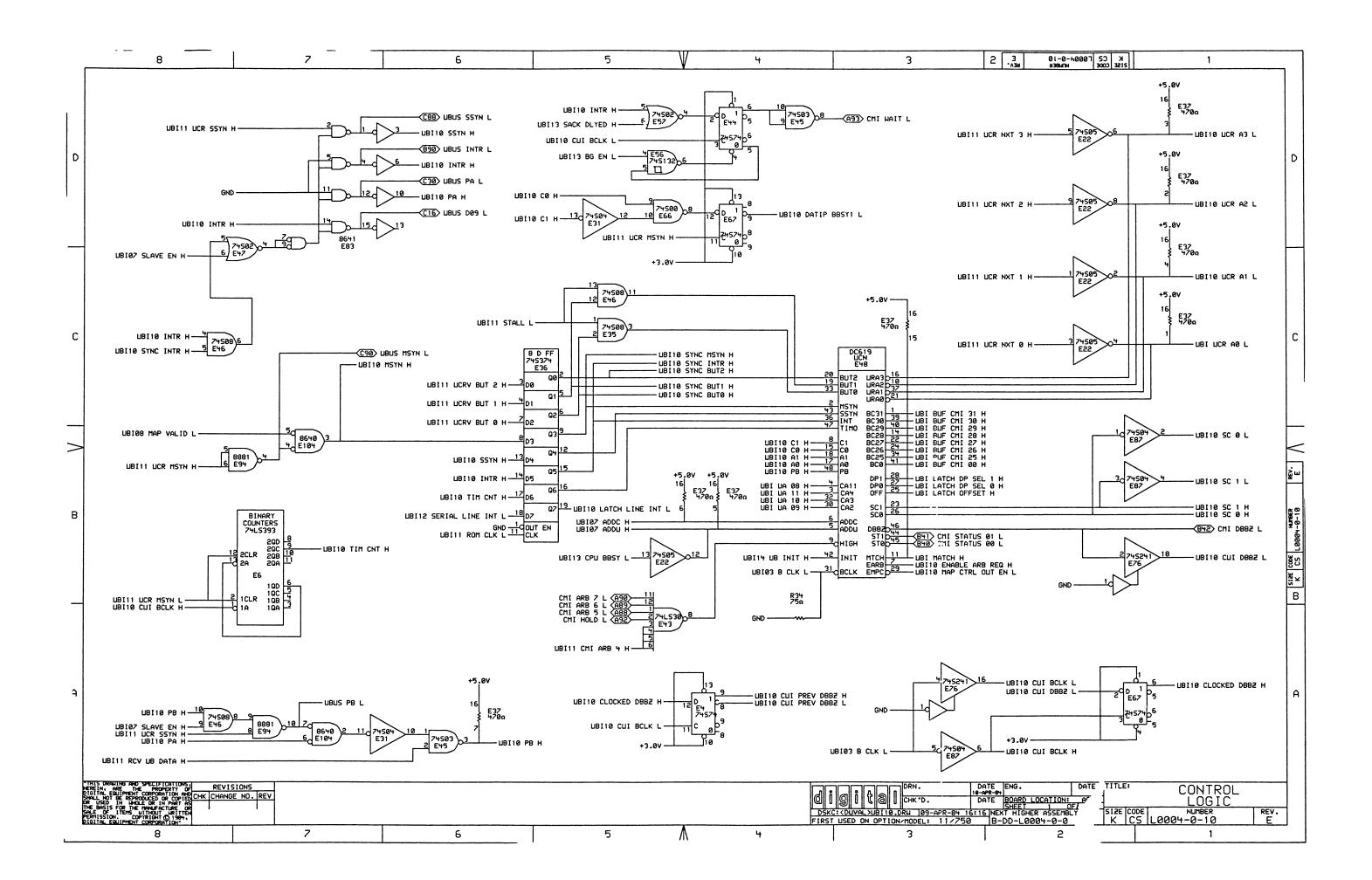


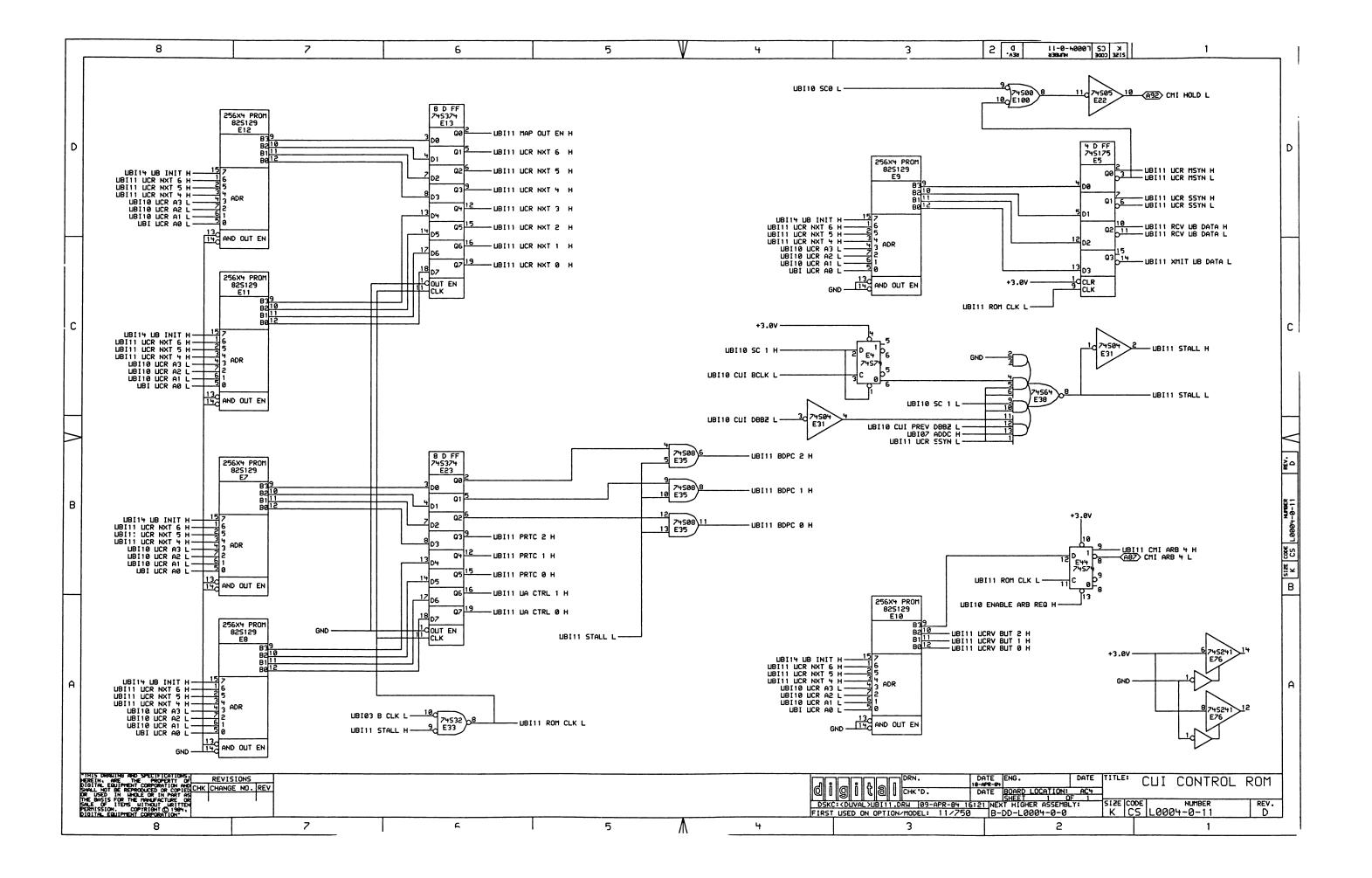


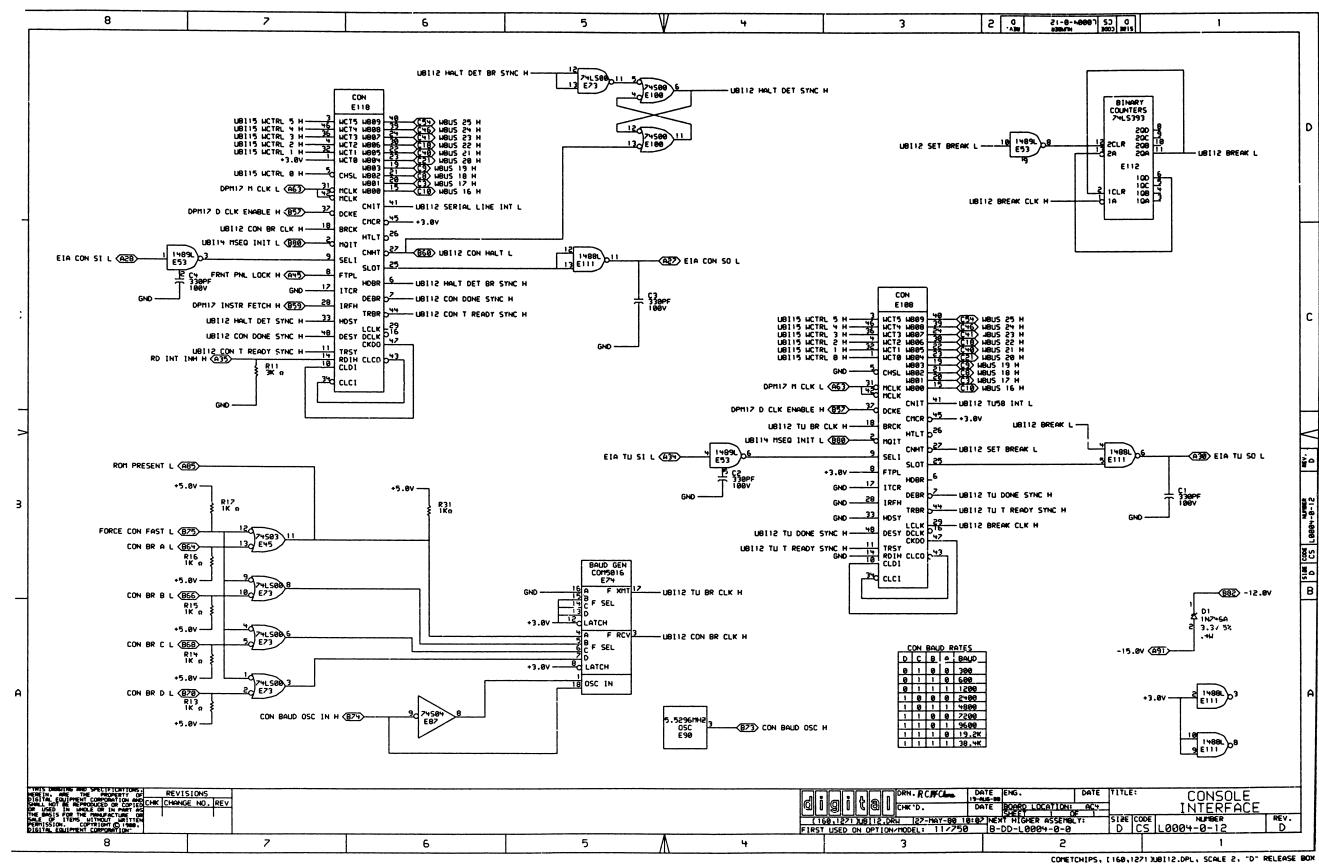


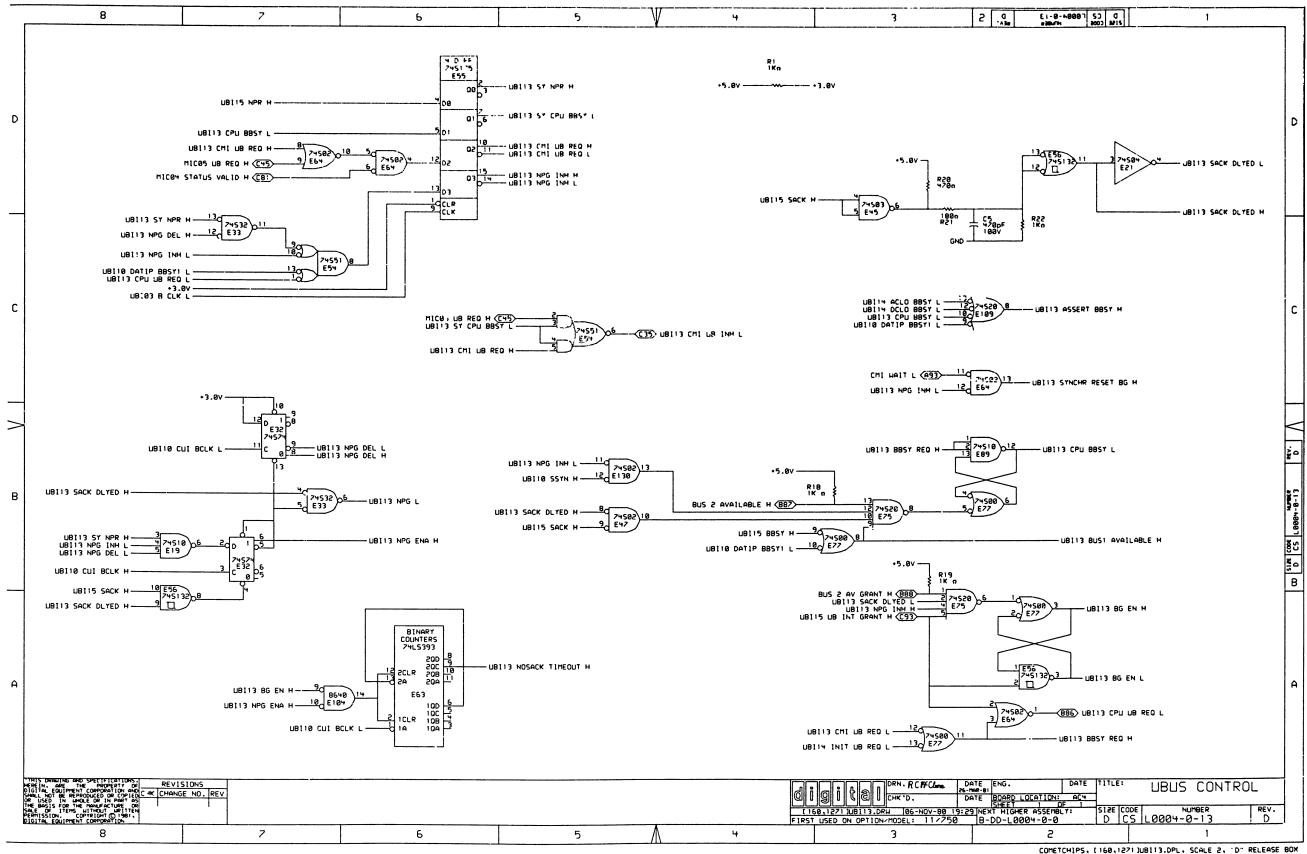




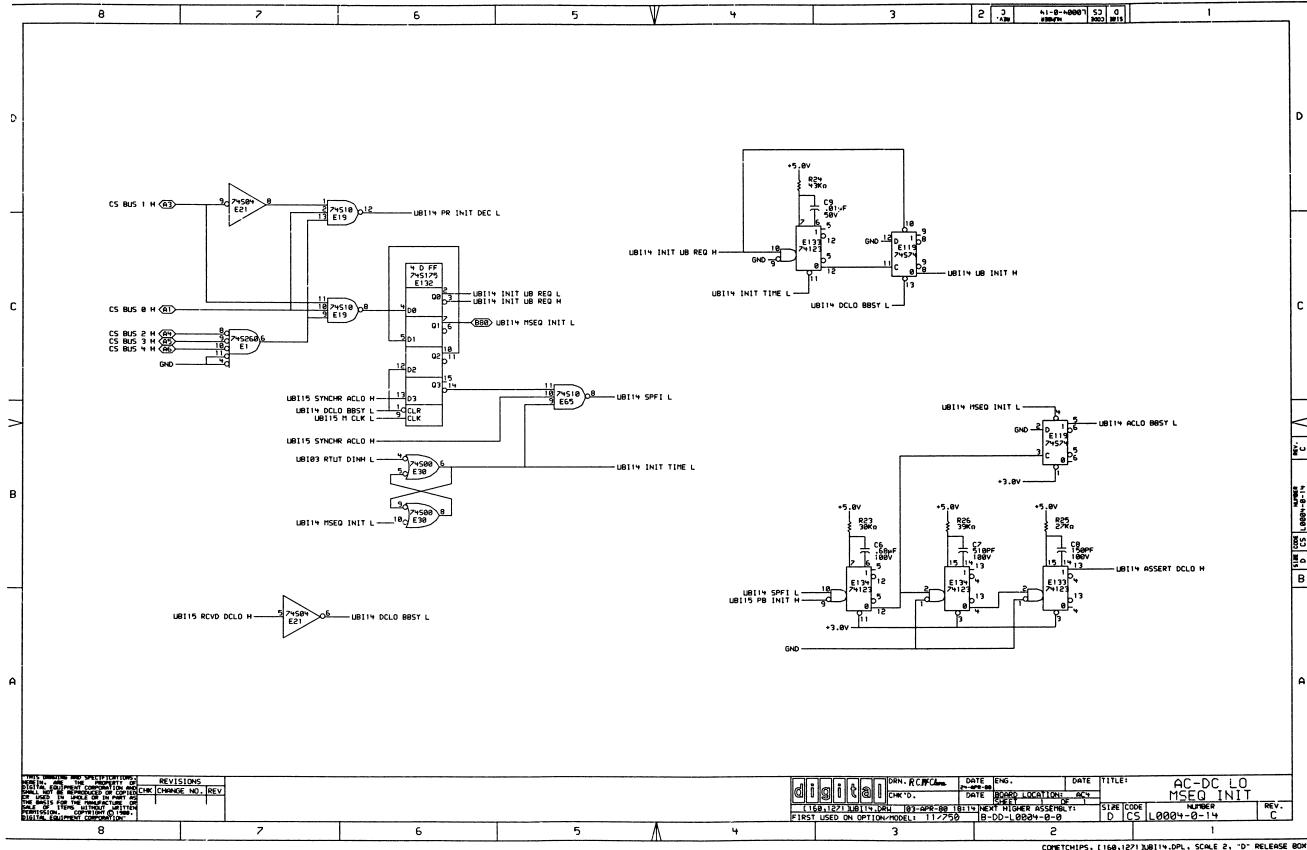


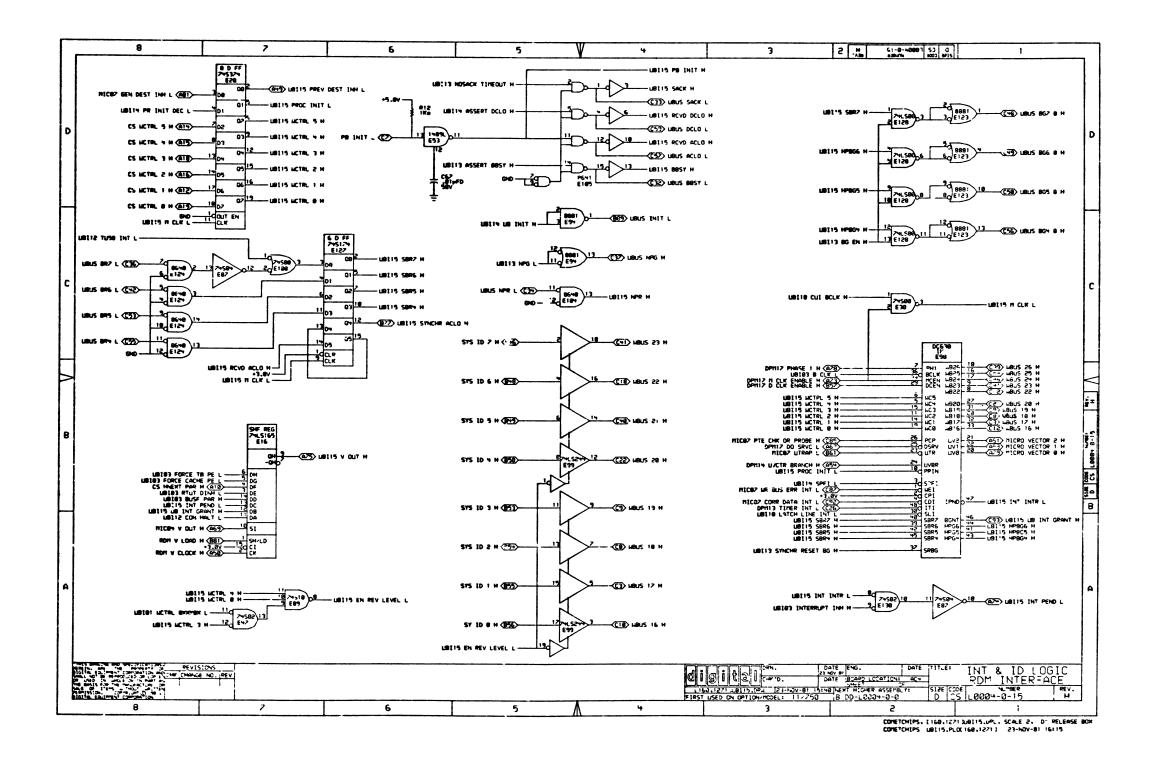






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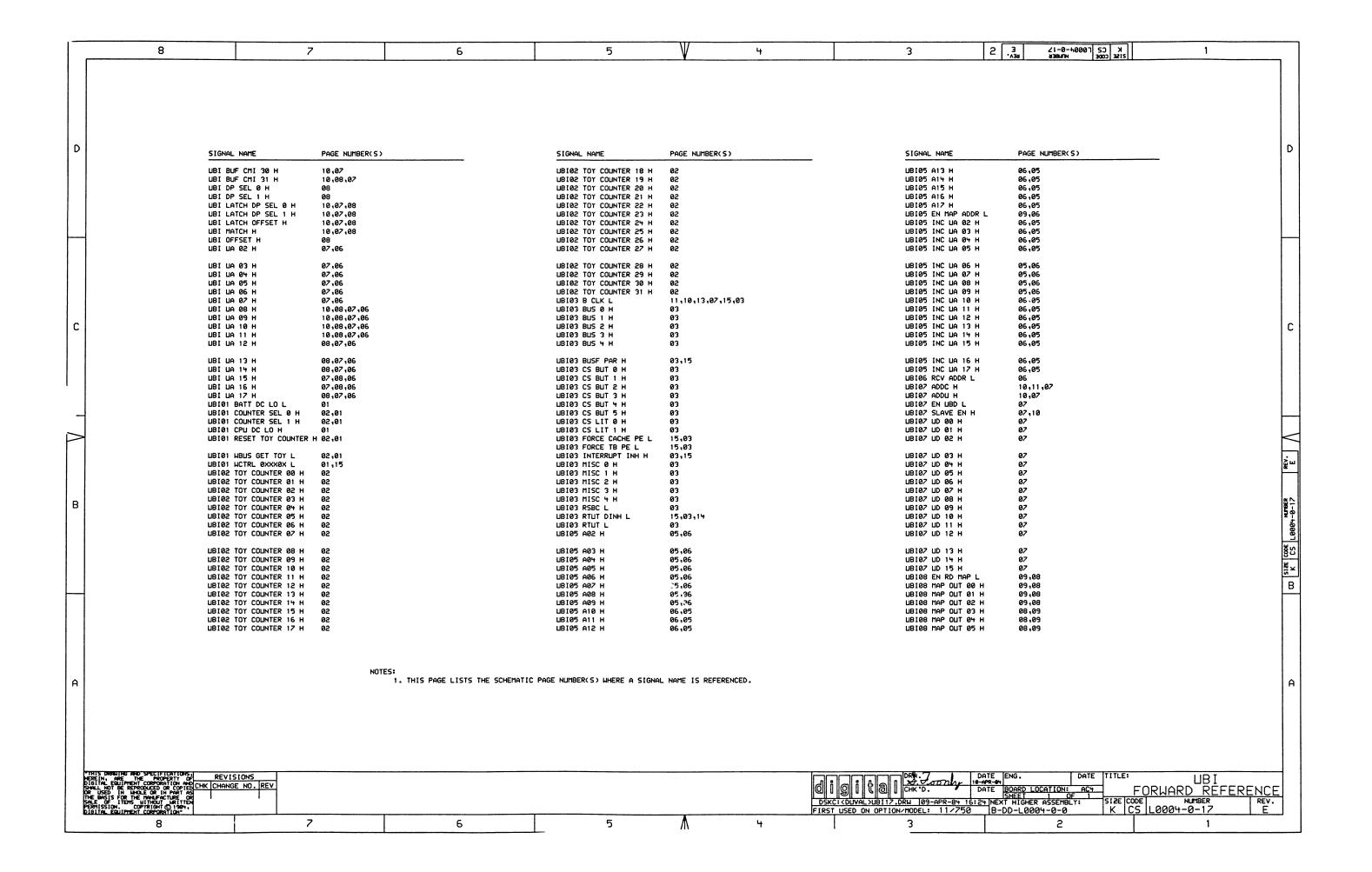


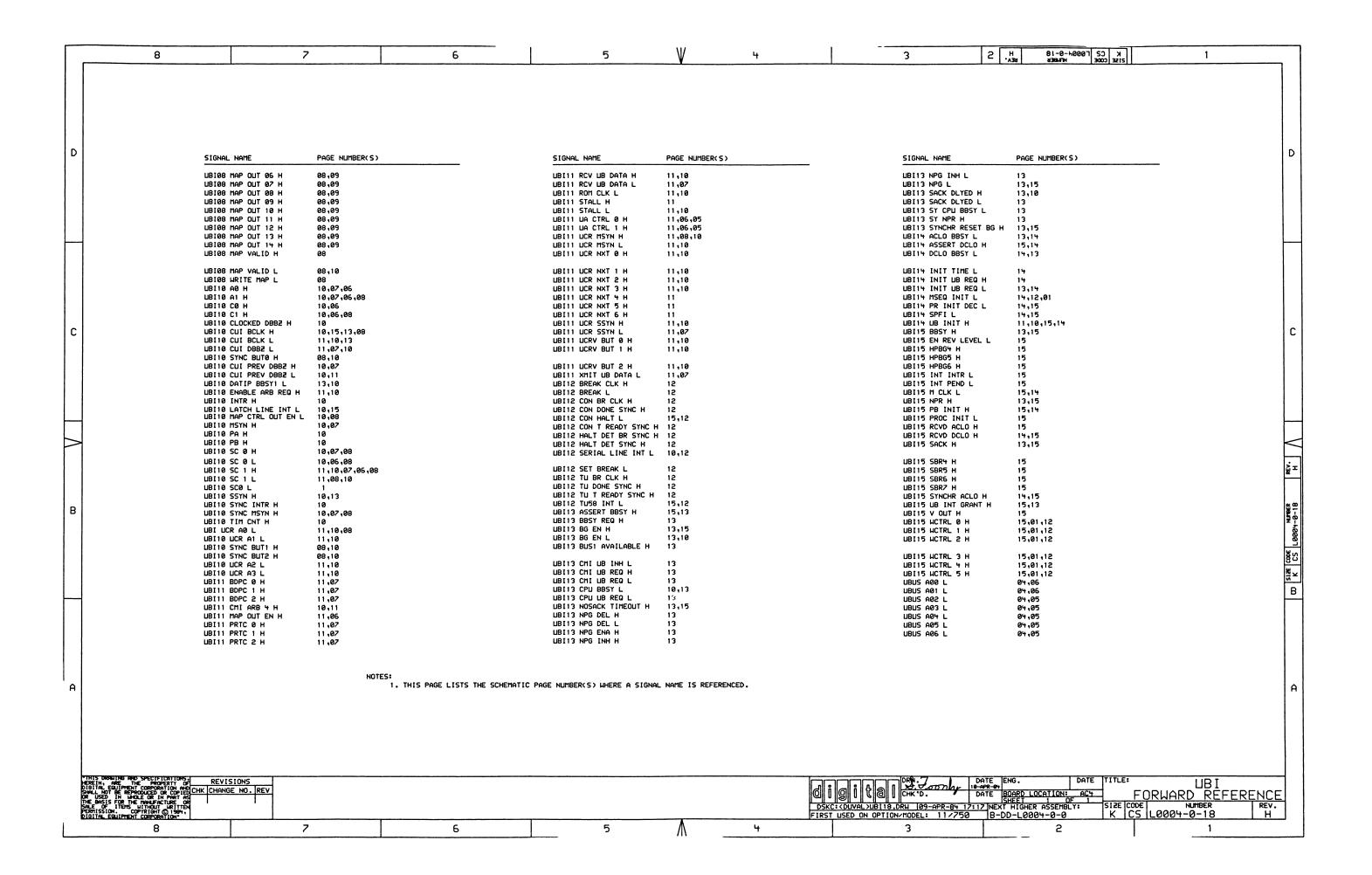
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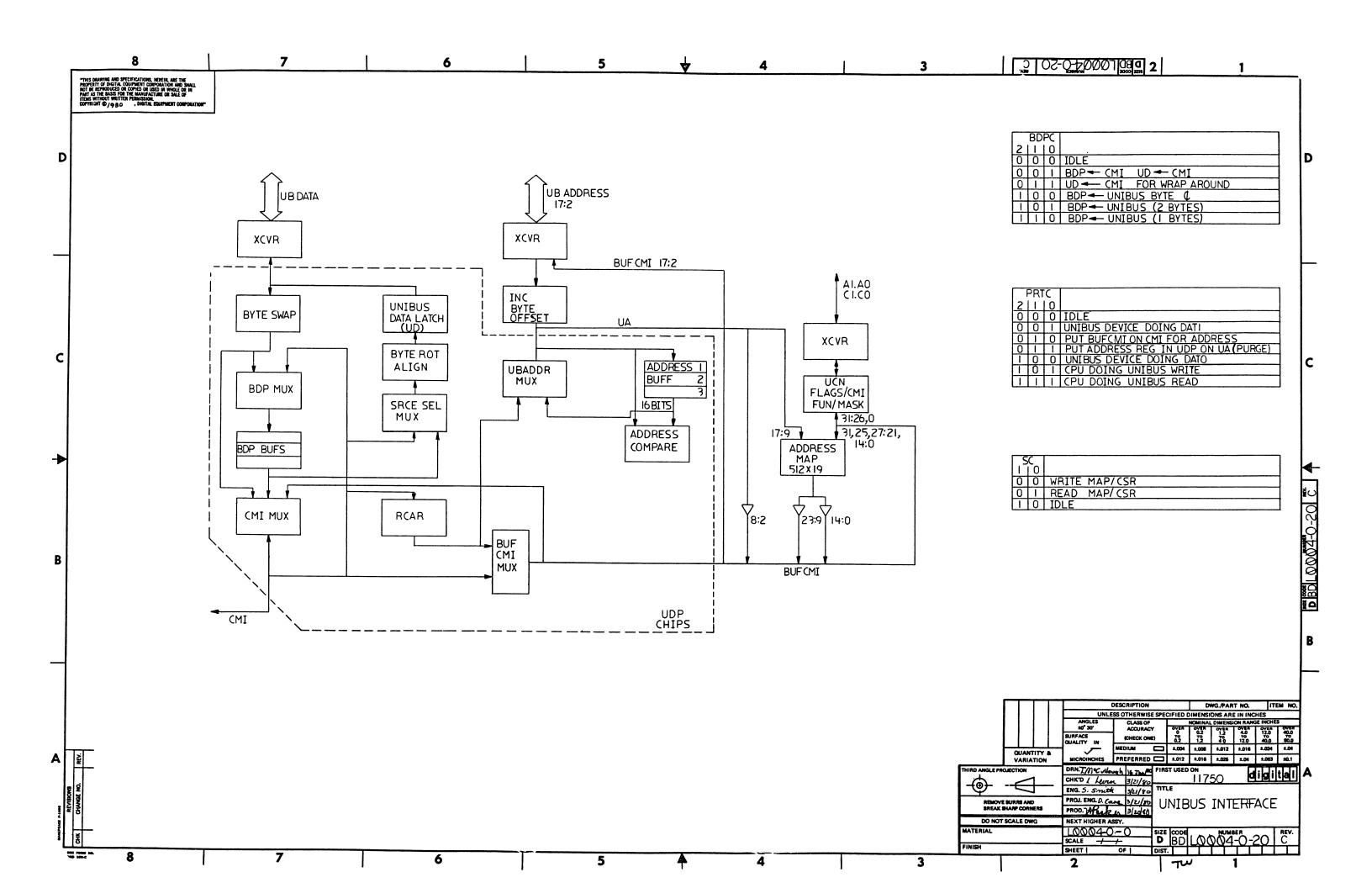
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В	UBUS (UB	000 L 000 L 010 L 011 L 012 L 013 L 014 L	84,87 87,84 18,97,84 87,84 87,84 97,84 97,84 97,84 97,84 97,84						•		- 198 WEV-
	ubus Ubus Ubus (Ubus (INIT L INTR L HSYN L NPG H	15,04 10,04 10,04 15,04								1000 HIS
	LBUS (LBus (LBUS (LB	PAL PBL SACKL SSYNL	15,04 10,04 10,04 15,04 15,04 10,04 02,01,15,12								В
A			NOTE	S: 1. THIS PAGE LISTS THE SCHEMATI	C PAGE NUMBER(S) WHERE A	SIGNAL NAME IS REFERENCED.					A
TWIS DRIEGE IN. A DIGITAL EC SHALL CO SHEED THE BASIS	AND SPECIFICATIONS REVIOUS THE PROPERTY OF REVIOUS PROPERTY	SIONS GE NO. REV					digital	CHK'D. DE	ATE BOARD LOCATION: ACY NEXT HIGHER ASSEMBLY:	FORWARD REFER	
PERMISSION DIGITAL EC	LITEPS MITHOUT MEITTEN N. COPTEDN'G 1980. BUILPHENT CORPORNTION:		7	6	5	<u> </u>	FIRST USED ON OPTION	MODEL: 11//50	B-DD-L0004-0-0	D CS L0004-0-19	REV.
	0	I	/	6	ו	//\ 7	1	3	ı C	i I	



```
; UBI
        .MCR [160,5507] Micro-2.1 1B(40)
                                                   8:52:33 18-Feb-1980
                                                                                 K-MP-L0004-0-21-C
                                                                                                                           Page 1
                                   Table of Contents
1 1
        COMET UNIBUS INTERFACE MICROCODE REV Ø15 12/19/79
        FIELD DEFINITIONS
FIRST FORK BREAKOUT
; 33
; 137
        CPU READS AND WRITES TO THE UNIBUS ARE HANDLED IN THIS SECTION
; 231
        DATO THROUGH BUFFERED DATA PATH
1 293
; 348
        BDP DATI'S
        THIS SECTION HANDLES DATO'S TO THE DDP
THIS PAGE IS WHERE WE COME FOR DATI'S THROUGH THE DIRECT DATA PATH
1 454
; 563
; 618
        PURGE CODE
        POWER UP CODE
, 650
```

```
.MCR [160,5307] Micro-2.1 1B(40) 8:52:33 18-Feb-1980
.MIC [160,5507] COMET UNIBUS INTERFACE MICROCODE REV 015 12/19/79
; UBI
; UBI
                                    .TOC "COMET UNIBUS INTERFACE MICROCODE REV 015 12/19/79"
                        12
                                                           DC FIXED DEFINITION OF UA.CTRL:RCV AND RVC.INCR WERE SWAPPED FIXED DDP AND BDP DATI CODE TO HGLD BYTE \sigma OF DATA IN UD LATCH FOR OFFSET CASE.
                                    1001 7/23/79
                        13
                        ; 4
                        ,5
                                                           ONLY E8, E7 CHANGE
                        16
                                    1002 7/23/79
                                                           DC FIXED SEQUENCE AT BEGINNING OF READ SO AS TO NOT
                        17
                                                           CAUSE UDP'S TO DRIVE UA BUS. E8, E7 CHANGE
PB CHANGED DEFAULT OF UA.CTRL TO "2" TO GO ALONG WITH CHANGE
                        18
                        19
                                    1003 7/23/79
                        110
                                                           FOR REV 001.
                                    1004 7/24/79
                                                            DC ADDED CONSTRAINED WORD IN DDP.DATO WRAP CODE
                        :11
                                                            TO ALLOW UBI TO HOLD DATO DATA ON BUS PROPERLY
                        113
                                                            ALL ROMS
                                    1005 7/24/79
                                                           DC FIXED BDP DATI CODE TO HOLD BYTE 0 ON WRAP-CHANGE
                        114
                                                           TO UBDATA FIELD TO KEEP HI-Z. E9 CHANGES
DC FIXED DATOB BDP NO WRITE TO ASSERT SSYN BEFORE
CHECKING TO SEE IF ITS THERE. E12,E11 CHANGE
DC CHANGED PFORMT CONTROL FILE TO BLAST BDPC FIELD LOW TRUE
                        115
                                    1006 7/24/79
                        ;16
                        117
                        ;18
                                    1 6A 8/13
                                                           ONLY E7 CHANGES
                        119
                                                           DC ADDED ARB FOR CMI DURING WRAP AROUND READS AND WRITES TO KEEP CMI DURING BOTH SETS DC CHANGED PFORMT CONTROL TTO BLAST BUT<1> LOW TRUE
                                    1007 9/14/79
                        120
                        121
                                    ; 7A 9/18/79
                        123
                                                           ONLY E10 CHANGES
                                    1009 9/21/79
                                                           CHANGED MAIN. 20, ALL ROMS
                        124
                                    1 9A 9/24/79
                                                           DC CHANGED PFORMT TO BLAST BUT<0> LOW TRUE
                        125
                        126
                                                           E10 CHANGES
                                                           CHANGED BDP.DATI.50, DDP.40 AND DDP.47 TO BUT ON SSYN INSTEAD OF MSYN
                                    1010 9/26/79
                        127
                        128
                                   ;013 10/9
;v15 12/19/79
                                                           DC NUMEROUS CHANGES TO FIX UNALIGNED AND PB PROBLEMS DC FIX TO CPU.RD TO PREVENT IT FROM LEAVING GARBAGE ON THE CMI. E8,E9 CHANGE
                       ;29
                        ; 31
                        ;32
```

```
.MCR [160,5507] Micro-2.1 1B(40)
                                                8:52:33 18-Feb-1980
                                                                               K-MP-L0004-0-21-C
                                                                                                                             Page 3
.MIC (160,5507) FIELD DEFINITIONS
                   .TOC "FIELD DEFINITIONS"
          134
                   RTOL
          135
                   .HEXADECIMAL
          136
          137
          138
                   CODE DIVIDED INTO ROMS AS FOLLOWS:
          139
                            <23170> E12
          140
                             <19116> E11
          141
                             <15112> E7
          142
                             <11:8> E8
<7:4> E9
<3:0> E10
          143
                   1
          144
          145
          146
          147
                   BUFCMI/=<23123>, .DEFAULT=0
          148
                            ADDR=1
                                                ; PUT MAP PFN AND LOW BITS OF UBUS ADDR ON BUFCMI
          149
                             HI-Z=0
          :50
                   NEXT/=<22:16>, NEXTADDRESS
          151
          152
                   BDPC/=<15:13>,.DEFAULT=0
          153
                                                                   CONTROLS BDP DATA/ADDR LATCHES
                                               ;BDP<-CMI, UD<-CMI/BDP (NOT BYTE Ø IF BYTE OFFSET),ADDR
          154
                            DATI=1
         155
                                                ;UD<-BDP/CMI
                             DATIWES
                                                BDP BYTE 0<-UNIBUS DATA, ADDR
          156
                            DATOW#4
                                                ;BDP<-UNIBUS DATA (2 BYTES) FUNCTION OF A1, OFFSET, ADDR
;BDP<-UNIBUS DATA (1 BYTE) FUNCTION OF A1, OFFSET, ADDR
          157
                             DATO=5
          158
                            DATOB#6
         159
                                               #0 ;CONTROLS DATA PORTS ON UDP CHIPS
;UBUS DEVICE DOING DATI(P)
;ADDRESS FROM UBUS TO CMI
;ADDRESS FROM BAR TO CMI
         169
                   PRTC/=<12:19>, .DEFAULT=0
          161
                            DATI=1
                             UB.ADDR=2
          162
          163
                             PUPGE.ADDR=3
         164
                            DATOE 4
                            CPU.WRT=5
         165
          166
                             CPU.PD=7
          167
                                                                   CONTROLS UNIBUS ADDRESS XCVRS
          168
                  UA.CTRL/=<9:8>, .DEFAULT=2
          169
                                                DRIVE UNIBUS ADDRESS LINES
                            XMIT=0
          170
                             HI-Z=1
          171
                                                ; RECIEIVE AND INCREMENT UNIBUS ADDRESS
                             RCV.INCR=3
                                                RECEIVE UNIBUS ADDRESS
          172
                             RCV=2
          173
                   MSYN/=<7:7>, .DEFAULT=0
          174
          175
                             ASSERT=1
          176
          177
                                                                                                                                     TW
.MCR [160,5507] Micro-2.1 18(40)
                                               8:52:33 18-Feb-1980
                                                                                                                             Page 4
.MIC [160,5507] FIELD DEFINITIONS
                  SSYN/=<6:6>, .DEFAULT=0
ASSERT=1
         178
         179
         180
         ,81
                   UBDATA/=<5:4>, .DEFAULT=2
                                                                   CONTROLS UBUS DATA XCVRS
         ;82
                            PCV=2
         183
                            DRIVE.UD=1
                                               ;DRIVE UBUS DATA LINES
                             DRIVE.UD.NOPB=3 ; DRIVE UBUS DATA BUT NOT PB LINES
          184
                            HI-Z=0
          ;85
          186
          187
                  CMI.ARB/=<3:3>, .DEFAULT=0
          188
                            REQUEST=1
          189
                  BUT/=<210>, DEFAULT=0
          190
          191
                                                ; < MSYN, EMPTY PURGE>
                            EMPTY#1
          192
                                               ; <MSYN, WON THE BUS L>
; <MSYN, WON THE BUS L>, FLAGS<-0001
          193
                            ARB=2
          194
                            SET.FLAG=3
                                                ; < MSYN, SSYN OR TIMOUT>
          195
                            UB.STATUS=4
                                                ; < MSYN, 88YN OR TIMOUT>, CLOCK FLAGS
          196
                            CLK.FLAGS=5
                            CMI.STATUS=6
                                                ; <WRAP L, DBBZ L, NXM L>
          197
                                                10000 BDP DATOB CMI WRITE NEEDED 10001 BDP DATO CMI WRITE NEEDED
                             FIRST.FORK#7
         199
                                               ;0010 BDP DATOB NO WRITE
;0011 BDP DATO NO WRITE, OR WRAP WITH NO MATCH
;0100 BDP DATI WRAP 18T WORD AVAILABLE
;0101 BDP DATI DATA AVAILABLE
         1100
         1161
         1102
         1103
                                               10110 BDP DATOB OFFSET PUTS IN NEXT LONGWORD 10111 BDP DATI NO DATA AVAILABLE
         :104
```

;1000 CPU WRITE ;1001 CPU READ

11010 DDP DATO(B)

11011 DDP DATI(P)

;1111 NOTHING GOING ON

11110 DDP DATOB OFFSET PUTS IN NEXT LONGWORD, OR INT

11100 PURGE

1101 PURGE

; UBI

; UBI

; UBI

2 UBI

1105

1106 1107

1198

1109 ;110

1111

;112 1113

1114

```
.MCR [160,5507] M1cro-2.1 1B(40)
                                                    8:52:33 18-Feb-1980
                                                                                  K-MP-L0004-0-21-C
                                                                                                                           Page 5
: UBI
        .MIC [160,5507] FIELD DEFINITIONS
                 1115
                          REQ.WRT?
                                           "CMI.ARB/REQUEST, PRTC/UB.ADDR, BUT/ARB, BUFCMI/ADDR"
                 1116
                          REQ.RD?
                                           "CMI.ARB/REQUEST, PRTC/UB.ADDR, BUT/ARB, UBDATA/HI-Z, BUFCMI/ADDR"
                          REQ.PUR?
                                           "CMI.ARB/REQUEST, PRTC/PURGE. ADDR, UA.CTRL/HI-Z, BUT/ARB, BUFCMI/ADDR"
                 1117
                 1118
                          EMPTY?
                                           "BUT/EMPTY"
                 1119
                          FIRST.FORK?
                                           "BUT/FIRST.FORK, NEXT/MAIN.LOOP"
                 1120
                          CMI.STAT?
                                           "BUT/CMI.STATUS"
                 1121
                          UB.STAT?
                                           "BUT/UB.STATUS"
                 :122
                 1123
                          SSYN
                                           "SSYN/ASSERT"
                 1124
                          MSYN
                                           "MSYN/ASSERT"
                 1125
                          INCR
                                           "UA,CTRL/RCV,INCR"
                 1126
                          REQ
                                           "CMI.ARB/REQUEST"
                 1127
                          DP_CMI
                 ;128
                                           "BDPC/DATI, PRTC/DATI, UBDATA/HI=Z"
                                           "BDPC/DATIW, PRTC/DATI, UBDATA/HI-Z, BUFCMI/ADDR"
                 1129
                          DP_CMI.W
                          UB_CMI.WRT "PRTC/CPU.WRT, UBDATA/DRIVE.UD, UA.CTRL/XMIT"
UB_CMI.WPT.NOPB "PRTC/CPU.WRT, UBDATA/DRIVE.UD, NOPB, UA.CTRL/XMIT"
                 :130
                 1131
                                           "PRTC/CPU.RD, UA.CTRL/XMIT"
                          UB_CMI.ADDR
                 1132
                                           "PRTC/DATI, UBDATA/DRIVE, UD"
                 1133
                          UB.RD_DP
                          REQ.XTRA?
                                           "CMI.ARB/REQUEST, PRIC/UB.ADDR, BUT/SET.FLAG, UA.CTRL/RCV.INCR, BUFCMI/ADDR"
                 1134
                                           "BDPC/DATI, UBDATA/HI=Z"
                 1135
                          HOLD.BØ
                 1136
```

; UBI

TW

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.MCR [160,5507] Micro-2.1 18(40)
; UBI
                                            8:52:33 18-Feb-1980
       .MIC [160,5507] FIRST FORK BREAKOUT
; UBI
               ;137
                      .TOC "FIRST FORK BREAKOUT"
               ;138
               1139
                      MAIN.LOOP:
                                                   ; THIS IS THE TOP OF FIRST FORK
               1140
                             ;0000----;
               1141
                                                   ;BDP DATOB; CMI WRITE
                             BUT/CLK.FLAGS,
               ;142
                             BDPC/DATOB,
U 000, 4PC2,25 ;143
                             NEXT/BDP.DATO
               1144
                             ; 0001----;
               ;145
                             BUT/CLK.FLAGS, ;BDP DATO; CMI WRITE
               1146
               1147
                             BDPC/DATO,
                                                   PUT DATA IN BUFFER
U 001, 4BA2,25 ;148
                             NEXT/BDP.DATO
               1149
                             :0010------
               :150
                                               BDP DATOB, BUFFER NOT FULL
                             BDPC/DATOB,
               ;151
                             BUT/CLK.FLAGS,
               1152
                             NEXT/BDP.DATO.20
U 002, 1FC2,25
              1153
               1154
               ;155
                             :0011-----
                                           BDP DATO, BUFFER NOT FULL
                             BDPC/DATO,
EUT/CLK.FLAGS,
NEXT/MAIN.20
               1156
                                                   OR OFFSET CAUSING WRAPAROUND
               :157
U 003, 12A2,25
              1150
              1159
                              10100-----
               ;160
                                                   BDP DATI, LONGWORD WRAP
                             BDPC/DATIW.
              1161
                             REO.RD?, INCR.
               1162
                             NEXT/BDP.DATI.30
                                                    ;FIRST WORD IS IN THE BUFFER
U 004, D46B,0A
              1163
               :164
               1165
                             ;0101-----
                              PRTC/DATI, BDPC/DATIW, ;BDP DATI, DATA AVAILABLE IN
               1166
               1167
                              UBDATA/HI-Z, REQ,
                                                    ;BUFFER********
U 905, 2F66,08
              ;168
                             NEXT/BDP.DATI.45
               1169
               1170
                              ; 0110----;
                                                    BDP DATOB, OFFSET PUTS BYTE
               1171
                             BDPC/DATOW,
                                                    IN NEXT LONGGWORD
                             INCR. BUT/SET. FLAG,
               ;172
                             NEXT/BDP.DATO.20
U 006, 1F83,23
              1173
               1174
               1175
                              BDP DATI, BUFFER EMPTY
               1176
                              REG.RD?.
U 007, DOOA, 0A
                             NEXT/BDP.DATI.10
               1177
               1178
```

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                                                                                                             Page 7
        .MIC [160,5507] FIRST FORK BREAKOUT
, UBI
               1179
                       ITHIS PAGE HOLDS THE SECOND EIGHT PLACES WHERE THE FIRST FORK GOES TO
               :180
                1181
               1182
                               PRTC/CPU.WRT.
                                                      JCPU DOING WRITE TO UNIBUS
                1183
                               UBDATA/HI-Z,
                                                      IGET READY TO ASSERT STUFF
                1184
                               UA.CTRL/HI-Z.
                                                      ON UNIBUS
                                                      ICHECK SSYN REMOVED FROM UBUS
               1185
                               UB.STAT?,
U 008, 1015,04 ,186
                               NEXT/CPU.WRT
                                                      ; GO TIME DESKEW INTERVAL
               1187
               1188
                               PRTC/CPU.RD,
               1189
                                                      JCPU DOING READ FROM UNIBUS
                               UA.CTRL/HI-Z.
               1190
               1191
                               UB.STAT?,
                                                      SEE COMMENTS ABOVE
U 009, 141D,24 1192
                               NEXT/CPU.RD
               1193
               1194
                               REQ.WRT?,
                                                     IDDP DATO(B)
               1195
                               NEXT/DDP.DATO
U 00A, DC0A, 2A
               1196
               1197
               1198
                               ;1011-----
                                                     DDP DATI
               1199
                               REQ.RD?,
U 00B, FPOA, OA
                               NEXT/DDP.DATI
               1200
               1201
               1202
                                                    PURGE, CHECK FOR EMPTY
               1203
                               EMPTY?,
U 00C, 7602,21
               1204
                               NEXT/PURGE
               :205
               1206
                               ;1101-----
                                                      PURGE, CHECK FOR EMPTY
                1207
                               EMPTY?,
U 00D, 7602,21
               1208
                               NEXT/PURGE
                1209
                1210
                                                     DDP DATOB WRAP TO NEXT LONGWORD LALSO HERE FOR INTERRUPTS
                :211
                               REQ.XTRA?,
                               NEXT/DDP.DATO.20
U 00E, E00B, 2B
               :212
               1213
                       IDLE:
               1214
               1215
                               ;1111-----
                                                      NOTHING GOING ON, KEEP TRYING
U 00F, 0002,27
                               FIRST.FORK?
               1216
               1217
                       #1#
               1218
                       MAIN. 20:
                                                      ;HERE TO SEE IF ;0011 WAS NO WRITE OR OFFSET
               1219
               1220
                                                    NOW THAT UDP ADDR IS THERE, TRY AGAIN
U 012, 1302,26 ;221
                              BUT/CMI.STATUS
               1222
               1223
                       #Ø11
               ;224
                                                     ; WRAP AROUND, WRITE NEEDED
                              REQ.WRT?,
               ;225
                               NEXT/BDP.DATO.05
U 013, C80A,2A ;226
               1227
               ;228
                               U 017, 6802,60 1229
                               SSYN, NEXT/DDP. 45 ; NO WRITE NEEDED
               1230
```

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; UBI

.MCR [160,5507] Micro-2.1 18(40)

TW

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; UBI
        .MCR [160,5507] Micro-2.1 1B(40)
                                                8:52:33 18-Feb-1980
; UBI
        .MIC (160,5507) CPU READS AND WRITES TO THE UNIBUS ARE HANDLED IN THIS SECTION
                ;231
                        .TOC "CPU READS AND WRITES TO THE UNIBUS ARE HANDLED IN THIS SECTION"
                1232
                1233
                       CPU, WRT:
                1234
                                ;0-----
                                                        BRANCH COMES HERE IF SSYN NOT ASSERTED
                1235
                                UB_CMI.WRT,
U 010, 1614,10 ;236
                                                        ASSERT ADDRESS AND DATA ON UNIBUS
                                NEXT/CPU.WRT.10
                1237
                1238
                                                       HERE IF SSYN LEFT ASSERTED FROM LAST UBUS TRANSACTION
                1239
                                UB_CMI.WRT.
                1240
                                UB_STAT?
U 011, 1014,14
                                NEXT/CPU.WRT
                :241
                1242
                1243
                        CPU.WRT.10:
                1244
                                                       FEATING UP TIME FOR ADDR/DATA
U 016, 2A14,30
                1245
                                UB_CMI.WRT.NOPB
                1246
                                                        TO MSYN DESKEW
                1247
                        =10
                       CPU.WRT.20:
                1249
                                ;10------
                1250
                                MSYN, UB. STAT?,
                                                       ; ASSERT MSYN AND WAIT FOR SSYN
                ,251
                                UB_CMI.WRT.NOPB,
U 02A, 2A14,B4 1252
                               NEXT/CPU.WRT.20
                1253
                                                       MSYN REMOVED, BECAUSE SSYN ARRIVED
U 028, 2814,30
               1255
                                UB_CMI.WRT.NOPB
                1256
                ;257
                       CPU, WRT.25:
                ;258
                                                      PREVENT TRISTATE OVERLAP
                1259
                                UA.CTRL/HI-Z,
U 028, 0F01,20 ;260
                                NEXT/IDLE
                1261
```

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, UBI
       .MIC [160,5507] CPU READS AND WRITES TO THE UNIBUS ARE HANDLED IN THIS SECTION
                                                                                 K-MP-L0004-0-21-C
                      ; THIS SECTION FOR CPU READS TO UNIBUS
               1263
               1264
                      CPU.RD:
                              10-----
               1265
                                                   155YN REMOVED FROM LAST TRANSACTION
               1266
                              UB_CMI.ADDR.
U 014, 291C, 20 1267
                              NEXT/CPU.RD.10
                                                    ASSERT ADDRESS AND BEGIN DESKEN TIME
               1268
               1269
                              UB_CMI.ADDR,
               1270
                                                   SSYN STILL ASSERTED, DON'T COUNT
               1271
                              UB.STAT?,
                                                    DESKEW TIME YET
U 015, 141C,24
                              NEXT/CPU.RD
               1272
               1273
               1274
                      CPU.RD.10:
               1275
U 029, 3A1C,20 1276
                              UB_CMI.ADDR
                                                   ;EAT 125 FOR DESKEW
               1277
               1278
                      #10
               1279
                      CPU.RD.20:
               1280
                              UB_CMI.ADDR.
                                                   ASSERT MSYN AND WAIT FOR SSYN
               1281
               1282
                              MSYN, UB, STAT?,
U 03A, 3A1C, A4 1283
                              NEXT/CPU.RD.20
               1284
               1285
                              ;11-----;
UB_CMI.ADDR,MSYN ;KEEP MSYN SO SLAVE HOLDS DATA
U 03B, 381C, A6 ;286
               1287
               1288
               ;289
                              PRTC/CPU.WRT, KEEP ADDRESS ON UNIBUS
                              UBDATA/HI-Z, UA.CTRL/XMIT,
               1290
U 038, 2814,00 ;291
                              NEXT/CPU.WRT.25
               1292
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; UBI

MCR [160,5507] Micro-2.1 1B(40)

TW

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; UBI
       .MCR [160,5507] Micro-2.1 1B(40)
                                             8:52:33 18-Feb-1980
                                                                                                          Page 18
; UBI
       .MIC [160,5507] DATO THROUGH BUFFERED DATA PATH
               1293
                      .TOC "DATO THROUGH BUFFERED DATA PATH"
               1294
                      ;DATO(B) THROUGH BDP THAT NEEDS TO DO A CMI WRITE
               1295
               1296
                      BDP.DATO.05:
               1297
                              ; 60----- JUST AS WE WON THE BUS
                              PRIC/DATO, CMI. STAT?, ; GO THROUGH WITH IT ANYWAY, WE'RE ALREADY ON BUS
               1298
                              BUFCMI/ADOR,
               ;299
U 048, 9812,26 ;300
                              NEXT/BDP.DATO.10
               :301
               1302
U 049, 0F02,20
               :303
                              NEXT/IDLE
                                                    ;LOST MSYN, ABORT
               ;304
               :305
                              PRTC/DATO, CMI.STAT?, ;BUS WON, ASSERT DATA NEXT CYCLE
               1306
               :307
                              BUFCMI/ADDR.
                              NEXT/BDP.DATO.10
                                                    JAND CHECK FOR LONGWORD WRAPEDBBZ
U 04A, 9812,26 1308
               ;309
                      BDP.DATO:
               1310
                             111------
                                                  WAITING TO WIN THE CMI
                              REQ.WRT?
               1311
U 04B, C80A,2A 1312
                              NEXT/BDP.DATO.05
               1313
                      =000
               1314
                      BDP.DATO.10:
                      THE NEXT FOUR ENTRIES OCCUR FOR THE OFFSET CASE WHERE THE DATA WRAPS
               1315
                              1000------
               1316
                              PRIC/DATO, CMI.STAT?, ;DBBZ STILL HELD ON BUS, KEEP WAITING
               1317
U 018, 1812,26
                              NEXT/BDP.DATO.10
               1319
               :320
                              PRTC/DATO, CMI. STAT?, ; DBBZ STILL HELD ON BUS, KEEP WAITING
               1321
U Ø19, 1812,26 1322
                              NEXT/5DP.DATO.10
               1323
               1324
U 01A, 6F02,20
              1325
                              NEXT/DDP.50
               1326
               1327
                                                  DBBZ HAS GONE AWAY, PUT BYTE IN BDP REGS AND SET FLAGS
                              INCR, BDPC/DATOW,
               ;328
               1329
                              BUT/SET_FLAG.
                              NEXT/BDP.DATO.20
U 01B, 1F83,23 ;330
               1331
               1332
                      THESE FOUR ARE FOR NO WRAP AROUND
               1333
                              ;100-----;
               1334
                              PRTC/DATO, CMI.STAT?, INO WRAP AROUND, DBBZ STILL ASSERTED
U Ø1C, 1812,26 ;335
                              NEXT/BDP.DATO.10
                                                    150 KEEP THE DATA ON THE BUS
               1336
               1337
                              PRTC/DATO, CMI, STAT?, ; NO WRAP AROUND, DBBZ STILL ASSERTED
               1338
                                                     150 KEEP THE DATA ON THE BUS
U Ø1D, 1812,26 1339
                              NEXT/BDP.DATO.10
               1340
               1341
                              ;110------
U Ø1E, 6FØ2,20 ;342
                              NEXT/DDP.50
                                                    INXM
               1343
                      BDP.DATO.20:
               1344
               1345
                              ,111------
                              SSYN, NEXT/DDP. 45 ; DBBZ WENT AWAY, ASSERT SSYN
U 31F, 6B02,60 ;346
               1347
```

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.MCR [160,5507] Micro-2.1 18(40)
, UBI
                                               8:52:33 18-Feb-1980
                                                                          K-MP-L0004-0-21-C
                                                                                                              Page 11
; UBI
        .MIC [160,5507] BDP DATI'S
                1348
                        .TOC "BDP DATI'S"
                       HERE FOR BDP DATI'S THAT NEED CMI ACTION
                1349
                ;350
                1351
                       BDP.DATI.10:
                1352
                               100------
                1353
                                                      GOT THE BUS, JUST AS WE LOST MSYN
                               CMI.STAT?.
                1354
                               BUFCMI/ADDR.
U 050, A002,26
               :355
                               NEXT/BDP.DATI.20
                1356
                :357
                               : 0 i -------
U 051, 0F02,20
                                                      LOST MYSN; ABORT
               :358
                               NEXT/IDLE
                1359
                1360
                               CMI.STAT?,
                :361
                                                      GOT THE BUS , GET READY FOR DATA
                1362
                               BUFCMI/ADDR
U 952, A902,26
               1363
                               NEXT/BDP.DATI.20
                1364
                1365
                               REQ.RD?,
                1366
                                                       ; WE GOT HERE CAUSE WE DIDN'T WIN THE BUS
U 053, DOCA,04
               1367
                               NEXT/BDP.DATI.10
                1368
               1369
                       BDP.DATI.20:
                1370
                       THESE FOUR ARE FOR THE DATA WRAP AROUND CASE
               1371
                               ; ý (; v) = = = = = = = = = = = ;
                1372
                                                     ; DBBZ STILL ASSERTED, KEEP WAITING
                               DP_CMI, CMI.STAT?, REQ.
U 020, 2026,0E 1373
                               NEXT/BDP.DATI.20
               1374
               1375
                               DP_CMI, CMI.STAT?, REQ, ; DBBZ STILL ASSERTED, KEEP WAITING
                1376
U 021. 2026.0E
               1377
                               NEXT/ROP.DATI.20
                :378
                :379
U 022. 6F02.20
                                                       ;DBBZ GONE, NXM STATUS RETURNED
               :380
                               NEXT/DDP.50
               :381
               1382
                               1011-----
               1383
                               BDPC/DATIW,
                                                      IDATA IN BUFFER, NOW MOVE TO UD
               1384
                               UBDATA/HI=Z, REQ,
U 023, 5762,08
               1385
                               MEXT/BDP.DATI.35
               ;386
                       :THESE FOUR ENTRIES ARE FOR NO WRAP-AROUND
               1387
               1388
                               1100-------
                                                      ;DBBZ STILL ASSERTED, KEEP WAITING
               1389
                               DP_CMI, CMI.STAT?,
U 024, 2026,0E ;390
                               NEXT/BDP.DATI.20,REQ
                                                      *******REMOVE REQ WITH UCN-C
                1391
               :392
               1393
                               DP_CMI, CMI.STAT?,
                                                      IDBBZ STILL ASSERTED, KEEP WAITING
U 025, 2026,0E
               1394
                               NEXT/BDP.DATI.20, REQ
                                                      ;*****REMOVE REQ WITH UCN=C
               1395
               ;396
U 026, 6F02,20
               1397
                               NEXT/DDP.50
                                                      ;DBBZ GONE, NXM STATUS RETURNED
               1398
               ;399
                                                      ;DBBZ'S GONE, WE GOT THE DATA
               1400
                               UB.RD_DP.SSYN,
U 027, 5806,58
                                                      : *****REMOVE REQ WITH UCN-C
               1401
                               NEXT/BDP.DATI.55,REQ
               1402
                                                                                                                   TW
; UBI
       .MCR [160,5507] Micro-2.1 18(40)
                                               8:52:33 18-Feb-1980
                                                                                                             Page 12
; UBI
       .MIC [160,5507] BDP DATI'S
               : 403
               1404
               1405
                       BDP.DATI.36:
                               190----
               1406
               1407
                               HOLD.BO, CMI.STAT?,
                                                      GOT THE BUS GET READY FOR DATA
                               BUFCMI/ADDR, INCR,
               1408
U 054, AC23,06
               1409
                               NEXT/BDP.DATI.40
               :410
                :411
                                                      LOST MSYN, ABORT
U 055, 0F02,20
               :412
                               NEXIVIDLE
               1413
               1414
                                                      GOT THE BUS , GET READY FOR DATA
               1415
                               HOLD.BO, CMI.STAT?,
               1416
                               BUFCMI/ADDR, INCR,
U 056, AC23,06
                               NEXT/BDP.DATI.40
               1417
               :418
               1419
                       BOP.DATI.35:
               :420
                               REQ.RD?, INCR, BDPC/DATI, GET THE BUS FOR THE SECOND
               1421
                               NEXT/BDP.DATI.3P
U 057, D428,0A
               1422
               :423
                       =100
               1425
                       BDP.DATI.40:
               1426
                               1100------
                               DP_CMI.CMI.STAT?, INCR, ;OBBZ STILL ASSERTED, KEEP WAITING
               1427
                               NEXT/BDP.DATI.40,REQ
                                                     ; *****REMOVE REQ WITH UCN=C
U 02C, 2C27,0E 1428
               1429
               ;430
               1431
                               DP_CMI,CMI.STAT?,INCR, ;DBBZ STILL ASSERTED, KEEP WAITING
U-020, 2027,0E
               1432
                                                    ; *****REMOVE REQ WITH UCN-C
                               NEXT/BDP.DATI.40,REQ
               1433
                               :110------
               1434
                               NEXT/DDP.50 :DBBZ GONE, NXM STATUS RETURNED
U 02E, 6F02,20 :435
               1436
                       BDP.DATI.45:
               1437
               1438
                               ;111----;
                               UB.RD_DP,SSYN, ;DBBZ'S GONE, WE GOT THE DATA
               1439
                               NEXT/BDP.DATI.55, REQ ;*****REMOVE REQ WITH UCN-C
U 02F, 5P06,58 ;440
               1441
               1442
               1443
                       BDP.DATI.EM:
                               1444
                                                  INO MSYN, REMOVE DATA AND SSYN
U 05A, 0002,27 1445
                               FIRST.FORK?
               :446
               :447
                       BDP.DATI.55:
```

WAIT FOR MSYN TO GO AWAY

NEXT/BDP.DATI.50, REQ ; *****REMOVE REG WITH UCN-C

,11-----

UB .RD_DP.

SSYN, UR. STAT?,

1448

: 450

1452 1453

U 05B, 5A06,5C 1451

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; UBI
        .MCR [160,5507] Micro-2.1 18(40)
                                              8:52:33 18-Feb-1980
                                                                      K-MP-L0004-0-21-C
                                                                                                             Page 13
        .MIC (160,5507) THIS SECTION HANDLES DATO'S TO THE DDP
; UBI
                       .TOC "THIS SECTION HANDLES DATO'S TO THE DDP"
               1455
               1456
                       DDP.DATO:
               1457
                               ; 00-----;
               1458
                               PRTC/DATO, BUFCMI/ADDR, ; WE GOT IT
               1459
                               CMI.STAT?,
U 05C, B012,26
               1460
                               NEXT/DDP.DATO.10
               1461
               1462
U 05D, 0F02,20
                                                     MSYN DISAPPEARED
               1463
                               NEXT/IDLE
               1464
               1465
               1466
                               PRTC/DATO, BUFCMI/ADDR, ; WE GOT IT
                1467
                               CMI.STAT?,
U 05E, B012,26
                               NEXT/DDP.DATO.10
               1469
               1470
                1471
                               REQ. WRT?,
                                                     TRYING TO GET THE BUS
U Ø5F, DCØA,2A
                               NEXT/DDP.DATO
               1473
               1474
               1475
                       DDP.DATO.10:
               1476
                       THE FOUR CASES ARE FOR THE WRAPAROUND SITUATION
               ;477
```

WAITING FOR DBBZ

; WAITING FOR DBBZ

DONE WITH THE FIRST, DO THE SECOND

NXM STATUS

INXM STATUS

DONE

PRTC/DATO, CMI. STAT?,

REG, NEXT/DDP.DATO.10

PRTC/DATO, CMI. STAT?,

REG, NEXT/DDP.DATO.10

NEXT/DDP.50

REQ.XTRAT,

THESE CASES ARE FOR NO WRAP

NEXT/DDP.DATO.20

NEXT/DDP.DATO.10

NEXT/DDP.DATO.10

NEXT/DDP.50

1010-----

:100------

;110----;

SSYN, NEXT/DDP. 45

PRTC/DATO, CMI.STAT?, ; WAITING FOR DBBZ

PRTC/DATO, CMI.STAT?, ; WAITING FOR DBBZ

1478

1480

1481

:483

1484

1485

1487

1488

1490

1491

1492

1494

1495

1496 1497 1498

:502

;504 ;505

1506

1507

U 930, 3012,2E

U 031, 3012,2E

U 032, 6F02,20

U 033, E008,28

U 034, 3012,26

U 035, 3012,26

U 037, 6B02,60

U 036, 6F02,20 1503

tw

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; UBI
        .MCR [160,5507] M1cro-2.1 1B(40) 8:52:33 18-Feb. MIC [160,5507] THIS SECTION HANDLES DATO'S TO THE DDP
                                                 8:52:33 18-Feb-1980
: UBI
                        ; THIS PAGE CONTINUES THE DDP DATO WRAP CASE CODE, ; AND ALSO HAS THE WAITING FOR MSYN TO GO AWAY STUFF
                ;508
                1509
                1510
                1511
                        DDP.DATO.201
                ;512
                                 ;00-----;
                                 PRTC/DATO, BUT/SET.FLAG, ; BUS WON
                1513
                                 INCR, BUFCMI/ADDR,
U 060, E713,23
                                 NEXT/DDP.DATO.25
                                 ;01----;
                                                       MSYN WENT AWAY
U 061, 0F02,20
                                 NEXT/IDLE
                1519
                1520
                1521
                                 PRTC/DATO, BUT/SET.FLAG, ; BUS WON
                                 INCR, BUFCMI/ADDR,
                ;522
U 062, E713,23 ;523
                                 NEXT/DDP.DATO.25
                1524
                1525
                                                        TRYING TO GET THE BUS
                                 REG.XTRA?,
                1526
                                 NEXT/DDP.DATO.20
U 063, E00B, 2B ;527
                        =11
                1528
                :529
                        DDP.DATO.25:
                1530
                                 U 067, 3C12,26 1531
                                 PRTC/DATO, CMI. STAT? ; THIS IS CONSTRAINED AS TARGET OF SET, FLAG
                1532
                        =100
                        DDP.DATO.30:
                :533
                               1100-----
                1534
                                 PRTC/DATO, CMI. STAT?,
                                                         ; WAITING FOR NO DBBZ
U 03C, 3C12,26 ,536
                                 NEXT/DDP.DATO.30
                1538
                                 PRTC/DATO, CMI.STAT?, ; WAITING FOR NO DBBZ
U 03D, 3C12,26
                                 NEXT/DDP.DATO.30
                1540
                1541
                                                         ; NXM
U 03E, 6F02,20
                1543
                                 NEXT/DDP.50
                1544
                                 1111-----
                1545
U 03F, 6B02,60
                                                      DONE
                                SSYN, NEXT/DDP.45
                1546
                1547
                        =10
                1548
                        DDP.40:
                1549
                                 110------
                                                         INO MSYN, REMOVE DATA AND SSYN
U 06A, 0002,27 :550
                                FIRST.FORK?
                        DDP.45:
                1551
                1552
                                                        WAITING FOR MSYN OR INT TO GO AWAY
                                 SSYN, UB. STAT?,
                1553
                                                         1BY SEEING IF SSYN GOT CLEARED
U 06R, 6A02,64
                1554
                                NEXT/DDP.40
                :555
                        =10
                1556
                        DDP.47:
                1557
                                                         INO MSYN, REMOVE DATA AND SSYN
U 06E, 0002,27
                1558
                                 FIRST.FORK?
                1559
                        DDP.50:
                1560
U Ø6F, 6E02,24
                                 UB.STAT?, NEXT/DDP.47 ; WAITING FOR MSYN TO GO AWAY
                156i
                1562
```

```
.TOC "THIS PAGE IS WHERE WE COME FOR DATI'S THROUGH THE DIRECT DATA PATH"
               1564
               1565
                      *00
               1566
                      DDP.DATI:
               1567
                              100-----
                              CMI.STAT?,
               1568
                                                   GOT THE BUS, WAIT FOR DATA
               1569
                              BUFCMI/ADDR,
U 070, C002,26 ,570
                              NEXT/DDP.DATI.10
               1571
                              :01------
               1572
U 071, 0F02,20 ;573
                                                   LOST MSYN
                              NEXT/IDLE
               1574
               1575
                                                   GOT THE BUS, WAIT FOR DATA
               1576
                              CMI.STAT?,
               1577
                              BUFCMI/ADDR,
U 072, CM02,26
              1578
                              NEXT/DDP.DATI.10
               1579
               ,580
                              111-----
                              REO.RD?,
                                                  TRY TO GET THAT BUS
               1581
11 073, FUDA, 0A
                              NEXT/DDP.DATI
              1582
               :583
               :584
                      2000
               1595
                      DDP.DATI.10:
                      THESE FOUR ARE FOR THE WRAP CASE
               1586
               1587
                              ;000----;
               1588
                              DP_CMI.W, CMI.STAT?, REQ, ; WAITING FOR DATA
U 040, C066,0E ;589
                              NEXT/DDP.DATI.10
               1590
               1591
                              DP_CMI.W, CMI.STAT?, REQ, ; WAITING FOR DATA
               1592
U 041, C066,0E ;593
                              MEXT/DDP.DATI.10
               1594
               1595
U 042, 6F02,20
              1596
                              NEXT/DDP.50
                                                   NXM t
               1597
               1598
                              REQ.RD?, INCR, BDPC/DATI, ; WE GOT THE FIRST, NOW DO THE SECOND
               1599
U 043, D42B, 0A 1600
                              NEXT/BDP.DATI.30
               1601
               1602
                              DP_CMI.W, CMI.STAT?, ; WAITING FOR DATA, NO WRAP-AROUND
               1603
                                                    ******REMOVE REQ WITH UCN-C
U 044, C066,0E 1604
                              NEXT/DDP.DATI.10,REQ
               1605
               1606
                              DP_CMI.W, CMI.STAT?, ; WAITING FOR DATA, NO WRAP-AROUND
               1607
                              NEXT/DDP.DATI.10, REQ
                                                  ; *****REMOVE REQ WITH UCN-C
U 045, C066,0E 1608
               1609
               1610
                              ;110----;
                                                   INXM, WAIT THE MSYN OUT
U 046, 6F02,20
               ;611
                              NEXT/DDP.50
               1612
               1613
                              ;111-----;
               ;614
                              UB.RD_DP, ;DBBZ WENT AWAY
               1615
                                                    GIVE THE UBUS DATA, AND ISSUE SSYN
                              SSYN.
                              NEXT/BDP.DATI.55, REQ : *****REMOVE REQ WITH UCN-C
U 047, 5806,58 ;616
               1617
                                                                                                               TW
       .MCR [160,5507] Micro-2.1 1B(40)
; UBI
                                                                                                         Page 16
                                             8:52:33 18-Feb-1980
; UBI
       .MIC [160,5507] PURGE CODE
                      .TOC "PURGE CODE"
               1618
                      THIS PAGE HANDLES PURGES
               1619
               1620
               1621
                      = 1 Ø
               1622
                      PURGE:
               1623
                              REQ.PUR?.
                                                   INOT EMPTY IF WE GET HERE
               1624
U 076, FAOD, 2A ;625
                              NEXT/PURGE.10
               1626
               1627
U 077, 0F02,20 ;628
                              NEXT/IDLE
                                          ; IF PUREG WAS EMPTY WE CLEARED IT
               1629
                      =10
               1630
               ;631
                      PURGE 10:
               1632
                              ;10----;
                              PRTC/DATO, UA.CTRL/HI-Z,
               1633
               1634
                              BUFCMI/ADDR,
U 07A, CD11,20
                              NEXT/PURGE.20
               1635
               1637
                              REG.PUR?,
U 078, FAUD, 2A 1639
                              NEXT/PURGE.10
               1640
               1641
                      =101
               1642
                      PURGE.20:
                              ;101-----;
               1643
                              PRTC/DATO, CMI.STAT?, ;DO WRITE AND WAIT FOR NO DBBZ
               1644
II Ø4D, 4D12,26
               1645
                              NEXT/PURGE.20
               1646
               1647
                              ;1;1-----;
                                                   FALL DONE
U 94F, 0F92,20
                              NEXT/IDLE
              1648
               1649
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.MIC [160,5507] THIS PAGE IS WHERE WE COME FOR DATI'S THROUGH THE DIRECT DATA PATH

; UBI

; UBI

.MCR [160,5507] M1cro-2.1 1B(40)

K-MP-L0004-0-21-C

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, UBI
        .MCR [160,5507] Micro-2.1 1B(40)
                                                  8:52:33 18-Feb-1980
                                                                                   K-MP-L0004-0-21-C
                                                                                                                      Page 17
; UBI
        .MIC [160,5507] POWER UP CODE
                         .TOC "POWER UP CODE"
                 1651
                         REGION /80,0FF
                 1652
U 080, 0F02,20
                 1653
                                  NEXT/IDLE
U 081, 0F02,20
U 082, 0F02,20
                 1654
                                  NEXT/IDLE
                 1655
                                  NEXT/IDLE
U 083, 0F62,20
                 1656
                                  NEXT/IDLE
U 084, 0F02,20
                 1657
                                  NEXT/IDLE
U 085, ØF02,20
                 1658
                                  NEXT/IDLE
U 086, 0F02,20
                 1659
                                  NEXT/IDLE
U 087, 0F02,20
                 1660
                                  NEXT/IDLE
U 088, 0F02,20
                 1661
                                  NEXT/IDLE
U 089, 0F02,20
                                  NEXT/IDLE
                 1662
U 08A, 0F02,20
                                  NEXT/IDLE
                 1663
U 088, 0F02,20
                                  NEXT/IDLE
                 1664
U Ø8C, ØFØ2,20
                 1665
                                  NEXT/IDLE
U 08D, 0F02,20
                                  NEXT/IDLE
                 1666
U Ø8E, ØF02,20
                 1667
                                  NEXT/IDLE
U 08F, 0F02,20
                                  NEXT/IDLE
                 1668
U 090, 0F02,20
                 1669
                                  NEXT/IDLE
U 091, 0F02,20
                 1670
                                  NEXT/IDLE
U 092, 0F02,20
                 1671
                                 NEXT/IDLE
U 093, 0F02,20
                 1672
                                 NEXT/IDLE
U 094, 0F02,20
                 1673
                                 NEXT/IDLE
U 095, 0F02,20
                 1674
                                  NEXT/IDLE
U 096, 0F02,20
                 :675
                                  NEXT/IDLE
U 097, 0F02,20
                 1676
                                  NEXT/IDLE
U 098, 0F02,20
                 1677
                                  NEXT/IDLE
U 099, 0F02,20
                 1678
                                  NEXT/IDLE
U 09A, 0F02,20
                 1679
                                 NEXT/IDLE
U 09B, 0F02,20
                 1680
                                 NEXT/IDLE
U 09C, 0F02,20
                 1681
                                 NEXT/IDLE
U 09D, 0F02,20
                 1682
                                 NEXT/IDLE
U 09E, 0F02,20
                1683
                                 NEXT/IDLE
U 09F, 0F02,20
                 1684
                                 NEXT/IDLE
                 1685
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; UBI
        .MCR [160,5507] M1cro-2.1 1B(40)
                                                     8:52:33 18-Feb-1980
                                                                                                                            Page 18
; UBI
        .MIC [160,5507] POWER UP CODE
U 0A0, 0F02,20
                 1686
                                   NEXT/IDLE
U 0A1, 0F02,20
                 1687
                                   NEXT/IDLE
U 0A2, 0F02,20
                                   NEXT/IDLE
                 1688
U 0A3, 0F02,20
                                   NEXT/IDLE
                 1689
U ØA4, ØFØ2,20
                 1690
                                   NEXT/IDLE
U 0A5, 0F02,20
                 1691
                                   NEXT/IDLE
U 0A6, 0F02,20
                                   NEXT/IDLE
                 1692
U 0A7, 0F02,20
                                   NEXT/IDLE
                 1693
U 9A8, ØF02,20
                 1694
                                   NEXT/IDLE
U 0A9, 0F02,20
                 1695
                                   NEXT/IDLE
U 0AA, 0F02,20
                                   NEXT/IDLE
                 1696
U 0AB, 0F02,20
                 1697
                                   NEXT/IDLE
                                   NEXT/IDLE
U 0AC, 0F02,20
                 1698
U 0AD, 0F02,20
                 1699
                                   NEXT/IDLE
                 1700
                                   NEXT/IDLE
U 0AE, 0F02,20
                                   NEXT/IDLE
U 0AF, 0F02,20
                 1701
U 080, 0F02,20
                 1702
                                   NEXT/IDLE
                                   NEXT/IDLE
U 081, 0F02,20
                 1703
U 082, UF02,20
                                   NEXT/IDLE
U 083, 0F02,20
                 1705
                                   NEXT/IDLE
U 084, 0F02,20
                 1706
                                   NEXT/IDLE
U 085, 0F02,20
                 1707
                                   NEXT/IDLE
U 086, 0F02,20
                 ,798
                                   NEXT/IDLE
U 087, 0F02,20
                 1709
                                   NEXT/IDLE
U 088, 0F02,20
                 1710
                                   NEXT/IDLE
                 1711
11 0B9, 0F02,20
                                   NEXT/IDLE
                 1712
1713
1714
U 08A, 0F02,20
U 08B, 0F02,20
                                   NEXT/IDLE
                                   NEXT/IDLE
U ØBC, ØF02,20
U ØBD, ØF02,20
                                   NEXT/IDLE
NEXT/IDLE
                 1715
U 0BE, 0F02,20
U 0BF, 0F02,20
                 1716
                                   NEXT/IDLE
                                   NEXT/IDLE
                 1717
                 1718
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; UBI ; UBI	.MCR [160,5507] .MIC [160,5507]	Micro-2.1 18(40) POWER UP CODE	8:52:33 18-Feb-1980	K-MP-L0004-0-21-C	Page 19
U ØCØ.	ØFØ2,2Ø ;719	NEXT/IDLE			
	0F02,20 1720	NEXT/IDLE			
	0F02,20 1721	NEXT/IDLE			
	ØFØ2,2Ø 1722	NEXT/IDLE			
	ØFØ2,20 1723	NEXT/IDLE			
	0F02,20 1724	NEXT/IDLE			
	ØF02,20 1725	NEXT/IDLE			
	ØFØ2,20 1726	NEXT/IDLE			
	ØFØ2.20 1727	NEXT/IDLE			
U 0C9	ØF02,20 1728	NEXT/IDLE			
U ØCA	0F02,20 1729	NEXT/IDLE			
U OCB	0F02,20 ;730	NEXT/IDLE			
U ØCC	0F02,20 1731	NEXT/IDLE			
U ØCD	0F02,20 1732	NEXT/IDLE			
U ØCE,	, 0F02,20 ;733	NEXT/IDLE			
U ØCF	, UF02,20 ;734	NEXT/IDLE			
U ØDØ	, 0F02,20 ;735	NEXT/IDLE			
U ØD1,	, 0F02,20 ;736	NEXT/IDLE			
U 9D2	0F02,20 ;737	NEXT/IDLE			
U ØD3,	, ØFØ2,20 ;738	NEXT/IDLE			
U ØD4,	, 0F02,20 1739	NEXT/IDLE			
U 005	, ØF02,20 ;740	NEXT/IDLE			
	0F02,20 1741	NEXT/IDLE			
	, 0F02,20 1742	NEXT/IDLE			
	, ØFØ2,20 ;743	NEXT/IDLE			
	, 0F02,20 ;744	NEXT/IDLE			
	, 0F02,20 ;745	NEXT/IDLE			
	, 0F02,20 ;746	NEXT/IDLE			
	, 0F02,20 1747	NEXT/IDLE			
	, ØFØ2,2Ø 1748	NEXT/IDLE			
	, 0F02,20 1749	NEXT/IDLE			
U ØDF	, 0F02,20 ;750	NEXT/IDLE			
	1751				

	UBI	MCD (160.55)	07] Micro-2.1 1B(40)	8:52:33 18-Feb-1980
-	UBI		77] POWER UP CODE	0.52.55 10-165-1980
7	081	*wir (Toologe	All bower of Cope	
U	0E0,	ØFØ2,20 ;752	NEXT/IDLE	
U	ØE1.	0F02,20 :753	NEXT/IDLE	
U	ØE2.		NEXT/IDLE	
U	0E3.	ØFØ2,20 ;755	NEXT/IDLE	
U	PE4.		NEXT/IDLE	
Ū	0E5.		NEXT/IDLE	
Ū	ØE6.	ØF02,20 1758	NEXT/IDLE	
U	ØE7.		NEXT/IDLE	
IJ	0E8.	0F02.20 1760	NEXT/IDLE	
U	ØE9.	0F02,20 1761	NEXT/IDLE	
U	OEA.	@F02,20 1762	NEXT/IDLE	
Ũ	ØEB.	0F02,20 1763	NEXT/IDLE	
Ū	ØEC.	0F02,20 1764	NEXT/IDLE	
U	ØED.	0F02,20 ;765	NEXT/IDLE	
U	ØEE.	UF02,20 :766	NEXT/IDLE	
U	ØEF.	WF02,20 1767	NEXT/IDLE	
U	OFO.	0F02,20 1768	NEXT/IDLE	
U	ØF1.	0F02,20 1769	NEXT/IDLE	
U	OF2.	0F02,20 1770	NEXT/IDLE	
U	ØF3,	0F02,20 1771	NEXT/IDLE	
		JF02,20 1772	NEXT/IDLE	
Ü	ØF5.	0F02,20 1773	NEXT/IDLE	
U	ØF6.		NEXT/IDLE	
Ū	0F7.	0F02,20 1775	NEXT/IDLE	
Ü	ØF8.	0F02,20 1776	NEXT/IDLE	
U	ØF9.	ØF@2.20 1777	NEXT/IDLE	
U	OFA.	0F02,20 1778	NEXT/IDLE	
U	ØFB.	UF02,20 1779	NEXT/IDLE	
Ű	ØFC.	0F02,20 1780	NEXT/IDLE	
	OFD,		NEXT/IDLE	
U	OFE,		NEXT/IDLE	
U	OFF.	0FU2.20 1783	NEXT/IDLE	
•		1784		

; UBI	.MCR [160,5507]		Ø) Reference		18-Feb-		Names and	Defined	Values			Page 22	2
BDPC		53 #											
,,52.	DATI	54 #	372	376	389	393	407	415	421	427	431 #	599 #	
	DATIW	55 #	161	166	383	588	592	603	607	76/	431 4	377 #	
	DATO	57 #	147	156	363	360	392	003	ODI				
	DATOB	58 #	142	151									
	DATOW	56 #	171	328									
BUFCMI	DATON	47 #	1/1	320									
BOLCHI	ADDR	48 #	162	176	105	400	244	225	000	343	344 4	354 4	240
	ADUR				195	199	211	225	299	307	311 #	354 #	362
		366	408	416	421	458	466	471	490	514 #	522 *	526	569
		577	581	588	592	599	603	607	624 #	634 #	638		
	HI-Z	49 #											
BUT		90 #											
	APB	93 #	162	176	195	199	225	311	366	421	471 #	581 #	599
		624	638										
	CLK.FLAGS	96 #	141	146	152	157							
	CMI.STATUS	97 #	221	298	306	317	321	334	338	353	361 #	372 *	376
		389	393	407	415	427	431	459	467	479 #	483 #	495	499
		531	535	539	568	576	588	592	603 #	607 #	644		
	EMPTY	92 #	203	207									
	FIRST.FORK	98 #	216	445	550	558							
	SET.FLAG	94 #	172	211	329	490	513	521	526				
	UB.STATUS	95 #	185	191	240	250	271	282	450	553	561 #		
CMI ARB		67 #											
•	PEQUEST	88 #	162	167	176	195	199	211	225	311	366 #	372 #	376
		384	390	394	401	421	428	432	440	451 #	471 #	480	484
		490	526	581	588	592	599	604	608 #	616 #	624	638	
MSYN		74 #	_										
	ASSEPT	75 #	250	282	286								
NEXT		51 #	- •										
	BDP.DATI.10	177	351 #	367									
	BDP.DATI.20	355	363	369 #	373	377	390	394					
	BDP.DATI.30	163	405 #	422	606								
	BDP.DATI.35	385	419 #										
	BDP.DATI.40	409	417	425 #	428	432							
	BDP.DATI.45	168	437 #		-								
	BDP.DATI.50	443 #	451										
	BOP.DATI.55	401	440	447 #	616								
	BDP DATO	143	148	309 #	- • -								
	BDP.DATO.05	226	296 #	312									
	BDP.DATO.10	300	308	314 #	318	322	335	339					
	BDP.DATO.20	153	173	330	344 #								
	CPU.PD	192	264 #	272									
	CPU.RD.10	267	274 #										
	CPU.RD.20	279 #	283										
	CPU WRT	186	233 #	241									
	CPU.WRT.10	236	243 #										
	CPU.WRT.20	248 #	252										
	CPU.WRT.25	257 #	291										
	DDP.40	548 #	554										
	DDP.45	229	346	566	546	551 #							
	DUP.47	556 #	561	J = -		~~* "							
	DDP.50	325	342	380	397	435	487	503	543	559 #	596 #	611 *	
	DDP.DATI	200	566 #	582	J = .		- - ·			"			
	DDP.DATI.10	570	578	585 #	589	593	604	608					
	DDP.DATO	196	456 #	472		-,-	• • •						
	DUTTURE	170	-99 7										

; UBI	.MCR [160,5507]	Micro-2.1 1B Cross	(40) Reference	8:52:33 Listing	18=Feb		K-			-0 -21	-C	Page 2	3
	DDP.DATO.10 DDP.DATO.20 DDP.DATO.25 DDP.DATO.30	460 212 515 533	468 491 523 536	475 # 511 # 529 # 540	480 527	484	496	500					
	IDLE	214 8 655 667 679 692 704 716 729	260 656 668 680 693 705 717 730	303 657 669 681 694 706 719 731 #	358 658 670 682 695 707 720 # 732 #	412 659 671 683 696 708 # 721 #	463 660 672 684 697 # 709 # 722 734	518 661 673 686 # 698 # 710 723 735	573 662 674 # 687 # 599 711 724 736	628 663 # 675 # 688 700 712 725 737	648 # 664 # 676 689 701 713 726 738	653 # 665 677 690 702 714 727 739	654 666 678 691 703 715 720 740
	MAIN.20	74! 754 # 766 # 778 158	767 779 219 #	743 # 756 768 780	744 757 769 781	745 758 770 782	746 759 771 783	747 760 772	748 761 773	749 762 774	750 763 775	752 764 776 #	753 765 # 777 #
PRTC	MAIN.LOOP PURGE PURGE.10 PURGE.20	139 # 204 625 635 60 #	216 208 631 # 642 #	445 622 # 639 645	550	558							
	CPU.RD CPU.WRT DATI	66 # 65 # 61 #	189 182 166	266 235 372	270 239 376	276 245 389	281 251 393	286 255 400	289 427	431	439 #	449 #	588
	DATO PURGE, ADDR	592 64 * 499 63 *	603 298 513 624	607 306 521 638	614 317 531	321 535	334 539	338 633	458 644	466	479 #	483 #	495
SSYN	UB.ADDR	62 # 526 78 #	162 581	176 599	195	199	211	225	311	366	421 #	471 #	490
UA.CTRL	ASSERT HI-Z PCV	79 # 68 # 70 # 72 #	229 184	346 190	400 259	439 624	450 633	506 638	546	553	615 #		
	PCV.INCR XMIT	71 # 522 69 #	162 526 235	172 599 239	211 245	328 251	408 255	416 266	421 270	427 276	431 #	490 #	514 290
UBDATA	DRIVE.UD DRIVE.UD.NOPB	81 # 83 # 84 #	235 245	239 251	400 255	439	449	614					
	HI-Z RCV	85 # 393 82 #	162 407	167 415	176 421	183 427	199 431	290 581	366 588	372 592 #	376 * 599 *	384 # 603	389 607

; UBI .MCR [160,5507]	Micro-2.1 18(4	0)	8:52:33	18-Feb	-1980						Page 24	
;		Reference			Macro	Names					_	
CMI.STAT?	120 #	298	306	317	321	334	338	353	361	372 #	376 # 389	
	393	407	415	427	431	459	467	479	483 #	495 #	499 531	
	535	539	568	576	588	592	603	607 #	644 #			
DP_CMI	128 #	372	376	389	393	427	431					
DP_CMI.W	129 #	588	592	603	687							
EMPTY?	118 #	203	207									
FIRST.FORK?	119 #	216	445	550	558							
HOLO.BØ	135 #	407	415									
INCR	125 #	162	172	328	408	416	421	427	431	514 #	522 # 599	
MSYN	124 #	250	282	286								
REQ	126 #	167	372	376	384	390	394	401	428	432 #	440 # 451	
	480	484	588	592	604	608	616					
REQ.PUR?	117 #	624	638									
REQ.RD?	116 #	162	176	199	366	421	581	599				
REQ.WRT?	115 #	195	225	311	471							
REO.XTRA?	134 #	211	490	526								
SSYN	123 #	229	346	400	439	450	506	546	533	615 #		
UB_RD_DP	133 #	400	439	449	614							
UB.STAT?	121 #	185	191	240	250	271	282	450	553	561 #		
UB_CMI.ADDR	132 #	266	270	276	281	286						
UB_CMI.WRT	130 #	235	239									
UB_CMI.WPT.NOPB	131 *	245	251	255								

;	UBI	.MCR	[160,5507]	Micro-2) n / Line		18-Feb- Index	1980	K-MP -L0004 -0-21 -C	e 25
	000		143=	148=	153=	158=	163=	168=	173=	177=	
	008		186=	192=	196=	200=	204=	208=	212=	216=	
	010		236≡	241=	221=	226=	267=	272=	245	229=	
	018		318=	322=	325=	330=	335=	339 ±	342=	346=	
	020		373=	377=	380=	385≈	390=	394=	397=	401=	
IJ	028		260	276	252=	255=	428=	432=	435=	440=	
IJ	030		480=	484=	487=	491=	496=	500=	503=	5∅6=	
U	Ø38		291		283≡	286=	536 m	540=	543=	546=	
U	949		589=	593#	596≖	600=	604=	608≖	611=	616=	
	Ø48		300=	3∅3=	308=	312=		645=		648=	
	05 Ø		355≋	358≖	363=	367≖	409m	412=	417=	422=	
	058				445=	451=	460=	463=	468=	472=	
	Ø6Ø		515≖	518=	523≖	527=				531=	
	058				550=	554=			558=	561 =	
	070		570=	573 =	578=	582=			625=	528=	
	078				635≖	639=					
U	989		653	654	655	656	657	658	659	660	
U	986		661	662	663	664	665	666	667	668	
U	090		669	670	671	672	673	674	675	676	
U	098		677	678	679	689	681	682	683	684	
U	OAG		586	687	688	689	690	691	692	693	
U	6 A 8		694	695	696	697	698	699	700	701	
U	080		702	703	704	705	706	707	708	789	
U	ØB8		710	711	712	713	714	715	716	717	
U	000		719	720	721	722	723	724	725	726	
ij	0C8		727	728	729	730	731	732	733	734	
U	ØDØ		735	736	737	738	739	740	741	742	
U	008		743	744	745	746	747	748	749	750	
	ØEØ		752	753	754	755	756	757	758	759	
U	ØE8		760	761	762	763	764	765	766	767	
U	0F0		768	769	770	771	772	773	774	775	
U	of 8		776	777	778	779	780	781	782	783	

```
### Memory No. Microwords High Addr U 236 255
Total number of microwords used: 236
Highest address(decimal): 255
Pass 1 warnings detected: 0 Pass 2 warnings detected: 0
Pass 2 errors detected: 0
```

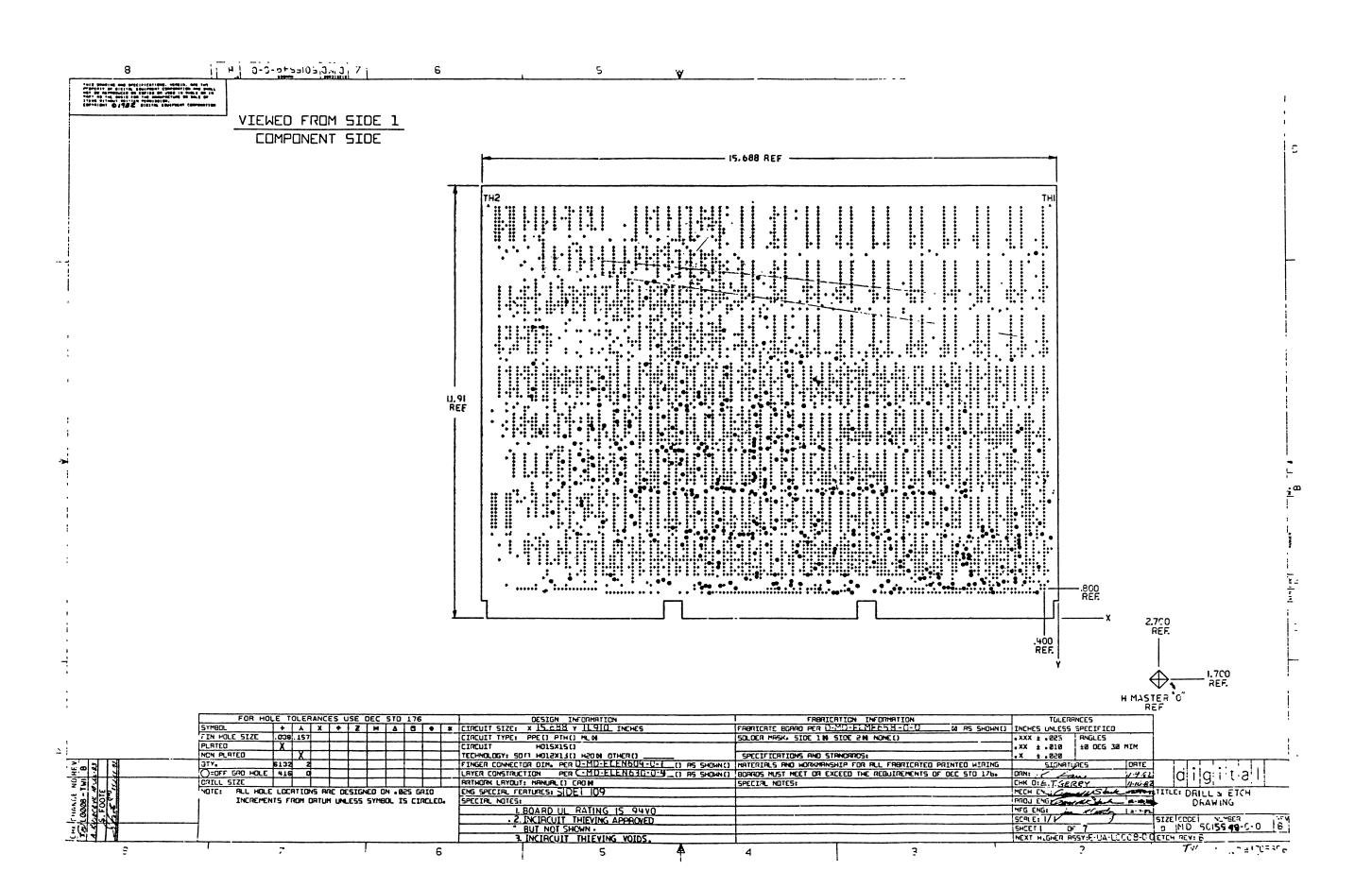
LINE ITEM TOP DOCUMENT	MIN PART NUMBER REV	DESCRIP		REVISION L		QTY P YA		/ARIATI YC		RENCE DESI	GNATOR	
1 42 2 1	5015549-00 1013466-22	DRILL AN		+80-20% Z	SU CER	1 61	1 -	1 - CONT		30,C32-C35 C59-C63,C6		.C42-C54.
3 44 4 43 5 37 6 34	CONT 1017472-00 1216988-02 1300247-00 1300309-00	10 MF HANDLE,N 120.0 390.0	MODULE,HEX 25 W	+75-10% (TWO EJEC ⁻ 5.0 % 5.0 %	AL EL TORS CF CF	- 6 1 1	69 6 1 1	69 6 1 1 -	C7-C C1-C R46 R23,	75 5 R25,R27,R2		3,R35,R37
	CONT					-		CONT CONT	R23,1 R39,1 R17,1	R25,R27,R2 R41,R3,R5, R19,R21	R7,R9,R1	1,R13,R15
	CONT					-	-	CONT CONT CONT	R39,1 R17,1 R61,1	R25,R27,R2 R41,R3,R5, R19,R21,R5 R63,R65,R6	R7,R9,R1 1,R53,R5 7,R69	1,R13,R15
7 32 8 36 9 33	1300316-00 1301424-00 1301972-00	470.0 680.0 270.0	.25 W .25 W .25 W	5.0 %	CF CF CF	5 1 10	5 1 -	5 1 - CONT	R44 R22,1	43,R45,R47 R24,R26,R2 R40		2,R34,R36
	CONT					-	20	CONT CONT	R22,I R38,I R16,I	R24,R26,R2 R40,R2,R4, R18,R20	R6,R8,R1	0,R12,R14
	CONT					-	-	CONT CONT CONT	R38,I R16,I R60,I	R24,R26,R2 R40,R2,R4, R18,R20,R5 R62,R64,R6	R6,R8,R1 0,R52,R5	0,R12,R14
10 38 11 35 12 40	1302379-00 1311522-00 1503121-00	75.0 200.0 2N 2369	.25 W .25 W NPN 350	5.0 %	CF CF N	2 1 1	2 1 1	2 1 1	R48,I R42 Q1	R49		
! REVISION HISTORY	!BASIC PART NO: LOOO _!	8 ! !DRN:	R.L	.OVE	! !DATE	: 15-	N0 V -	82 ! D	I	G I	Т	A L !
!! INITIAL !A !SF !L0008-TW002 !B	V !SECTION A OF A ! !SECTION.VARIATION IND ! [A] YA,YB,YC	EX !CHK'[!): F.G	GERRY	DATE	: 15-	N0V-	-82 TI	TLE PCS 750		LIST	
!SF !L0008-TW004 !C ! ! ! !	! [B] ! [C] ! [D] ! [E]	! !DES.E !	ENG: J.S	STARK	DATE	: 15-	N0V-	!SI	ZE!CODI	DOCUMENT E! NUMBER	NUMBER_	! REV !
	! (F) ! (H)	RESP	.ENG.: J.S	STARK	DATE	: 15-	N0V-	-82 i K	. PL	L0008-0	-DBP	i c !
	! [J] ! [K] ! [L]	! !MFG.E	ENG.: B.N	IEUMANN	DATE	: 15-	N0 V -	-82 ¦ R	ELEASE	DATE: 04	-JAN-85	
·	! [M] ! [N]		MBLY NUMBE		TOP !B-DD		_	NUMBER	:	! FILE NA ! Z3928C.		!EDIT #

AUTOMATED BY PRTLST.40(50		PARTS LIST	SHEET A2 OF A3
LINE ITEM TOP DOCUMENT	MIN PART NUMBER REV		QTY PER VARIATION YA YB YC REFERENCE DESIGNATOR
13 18 14 41 15 13 16 23 17 10 18 20 19 27 20 29	1811660-01 1811660-29 1910532-00 1910533-00 1910534-00 1910546-00 1910546-00	OSCILLATOR, XTAL 10.000 MHZ OSCILLATOR, XTAL 18.750 MHZ 74S00 NAND GATE-QUAD 2IN 74S03 NAND GATE-QUAD 2IN,0 74S04 INVERTER GATE-HEX 1I 74S10 NAND GATE-TRIPLE 3IN 74S74 FF-D DUAL,EDGE TRIGG 74S140 NAND GATE-DUAL 4INPU	1 1 1 E159 1 1 1 E168 2 2 2 E148,E171 2 2 2 E175,E186 5 5 5 E139,E147,E162,E172,E190 2 2 2 E161,E170 3 3 3 E181,E183,E188 1 1 1 E187
21 19 22 14 23 22 24 6	1910547-00 1910549-00 1911573-00 1911675-00 CONT	74S153 MUX 1 OF 4 (DUAL) 74S158 MUX 1 OF 2 (QUAD) 74S280 PARITY GEN/CHKR,9BIT /4S138 DECODER/DEMUX 3-8 LI	6 6 6 E160,E167,E174,E176,E177,E191 6 6 6 E149,E156,E165,E166,E169,E185 1 1 1 E164 3 3 - E119,E129,E130 - 4 E119,E129,E130,E138
25 25 26 31 27 11 28 24 29 7 30 26 31 16 32 8	1911712-00 1911983-00 1912388-00 1912389-00 1912746-00 1912803-00 1912830-00 1912872-00	74S51 AND-OR GATE-INVERT D 74S133 NAND GATE-POSITIVE 1 74S02 NOR GATE-QUAD 2IN,PO 74S08 AND GATE-QUAD 2IN,PO DEC 74S37 NAND GATE-QUAD 2IN LS04 INVERTER GATE,HEX LS90 COUNTER,ASYNCH UP,DE LS377 FF-D 8BIT W/ENABLE	1 1 1 E179 1 1 1 E195 1 1 1 E140 2 2 2 E178,L192 3 3 3 E120,E121,E122 1 1 1 E180 1 1 1 E152 2 2 E128,E137
33 17 34 15 35 2	1913340-00 1913462-00 1913493-00 CONT	74S32 OR GATE-QUAD 2IN 74S240 OCTAL BUFFER,INVERTI 74S241 OCTAL BUFFER,TRI-STA	1 1 1 E153 1 1 1 E151 12 - E1,E8,E28,E41,E54,E88,E101,E114 CONT E132,E150,E155,E184 - 22 22 E1,E6,E8,E16,E28,E33,E41,E46, CONT E54,E59,E88,E93,E101,E109,E114, CONT E123,E132,E141,E150,E155,E157, CONT E184
36 21 37 28 38 12 39 9 40 3	1913671-00 1914085-00 1914868-00 1915193-00 1915218-00	74S374 FF-D,OCTAL,TR1 STATE 74S260 NOR GATE-DUAL,POS FF-D QUAD, COMMON R LS244 DRIVER,LINE,OCTAL,TR LS245 TRANSCEIVER,BUS,OCTA	2 2 2 E163,E173 2 2 2 E182,E196 1 1 1 E146 1 1 1 E131 15 - E2,E12,E24,E37,E50,E63,E67,E72,
41 30 42 5	2114523-00 2116957-03 CONT	4K MOS RAM 55NS 18PIN 1K MOS RAM 55NS 1	CONT E136,E145,E154,E158 2 2 E189,E194 20 - E11,E19,E23,E31,E36,E44,E49,E57
! D I G I T A	!TITLE L ! PCS 750 !	SECTION A	! !SIZE!CODE! DOCUMENT NUMBER ! REV OF A ! ! ! ! ! ! ! ! ! ! ! C

AUTOMATED BY PRTLST.40(50) PARTS LIST SHEET A3 OF A3 QTY PER VARIATION MIN PART NUMBER REV DESCRIPTION YA YB YC REFERENCE DESIGNATOR LINE ITEM TOP DOCUMENT VARIATION REVISION LEVEL: CONT E124,E133,E142 E9,E10,E11,E17,E18,E19,E21,E22, CONT E23,E29,E30,E31,E34,E35,E36,E42, CONT E43,E44,E47,E48,E49,E55,E56,E57, CONT CONT E60,E61,E62,E68,E69,E70,E73,E74, CONT E75.E81,E82,E83,E89,E90,E91,E94, CONT E95,E96,E102,E103,E104,E110, CONT E111,E112,E115,E116,E117,E124, CONT E125,E126,E133,E134,E135,E142,

						CONT	E143,E144
43	4 BLANK		*** THIS ITEM IS NOT USED ***	-	-		
44	45	23090F4-00	F4-01	1	1	1	E3
45	46	23091F4-00	F4-01	1	1	1	E4
46	47	23092F4-00	F4-01	1	1	1	E5
47	48	23093F4-00	F4-01	1	1	1	E13
48	49	23094F4-00	F4-01	1	1	1	E14
49	50	23095F4-00	F4-01	1	1	1	E15
50	51	23096F4-00	F4-01	1	1	1	E25
51	52	23097F4-00	F4-01	1	1	1	E26
52	53	23098F4-00	F4-01	1	1	1	E27
53	54	23099F4-00	F4-01	1	1	1	E38
54	55	23100F1-00	F1-01	1	1	1	E39
55	56	23101F4-00	F4-01	1	1	1	E40
56	57	23102F4-00	F4-01	1	1	1	E51
57	58	23103F4-00	F4-01	1	1	1	E52
58	59	23104F4-00	F4-01	1	1	1	E53
59	60	23105F4-00	F4-01	1	1	1	E64
60	61	23106F4-00	F4-01	1	1	1	E65
61	62	23107F4-00	F4-01	1	1	1	E66
62	63	23108F4-00	F4-01	1	1	1	E77
63	64	23109F4-00	F4-01	1	1	1	E78
64	65	23110F4-00	F4-01	1	1	1	E79
65	66	23111F4-00	F4-01	1	1	1	E85
66	67	23112F4-00	F4-01	1	1	1	E86
67	68	23113F4-00	F4-01	1	1	1	E87
68	69	23114F4-00	F4-01	1	1	1	E98
69	70	23115F4-00	F4-01	1	1	1	E99
70	71	23116F4-00	F4-01	1	1	1	E100
71	72	23117F4-00	F4-01	1	1	1	E106
72	73	23118F4-00	F4-01	1	1	1	E107
73	74	23119F4-00	F4-01	1	1	1	E108
74	39	9009185-00	JUMPER, WIRE, INSULATED, BLACK B	2	-	-	W1,W3
		CONT		-	2	-	W2,W4
		CONT		-	-	1	W4
75	75	9000024-01	EYELET,ROLLED 0.1210DX0.192	12	12	12	
76	76	9105740-55	WIRE(WRAP) 30AWG KYNAR UL14	A/R	A/R A	1/R	

!	!	TITLE	!	-	!SIZE!CODE! DOCUMENT NUMBER ! REV !
! D I G	I T A L!	PCS 750	SECTION A OF A	!	
:				!	! K ! PL ! L0008-0-DBP
• —————	 ;.			:	··

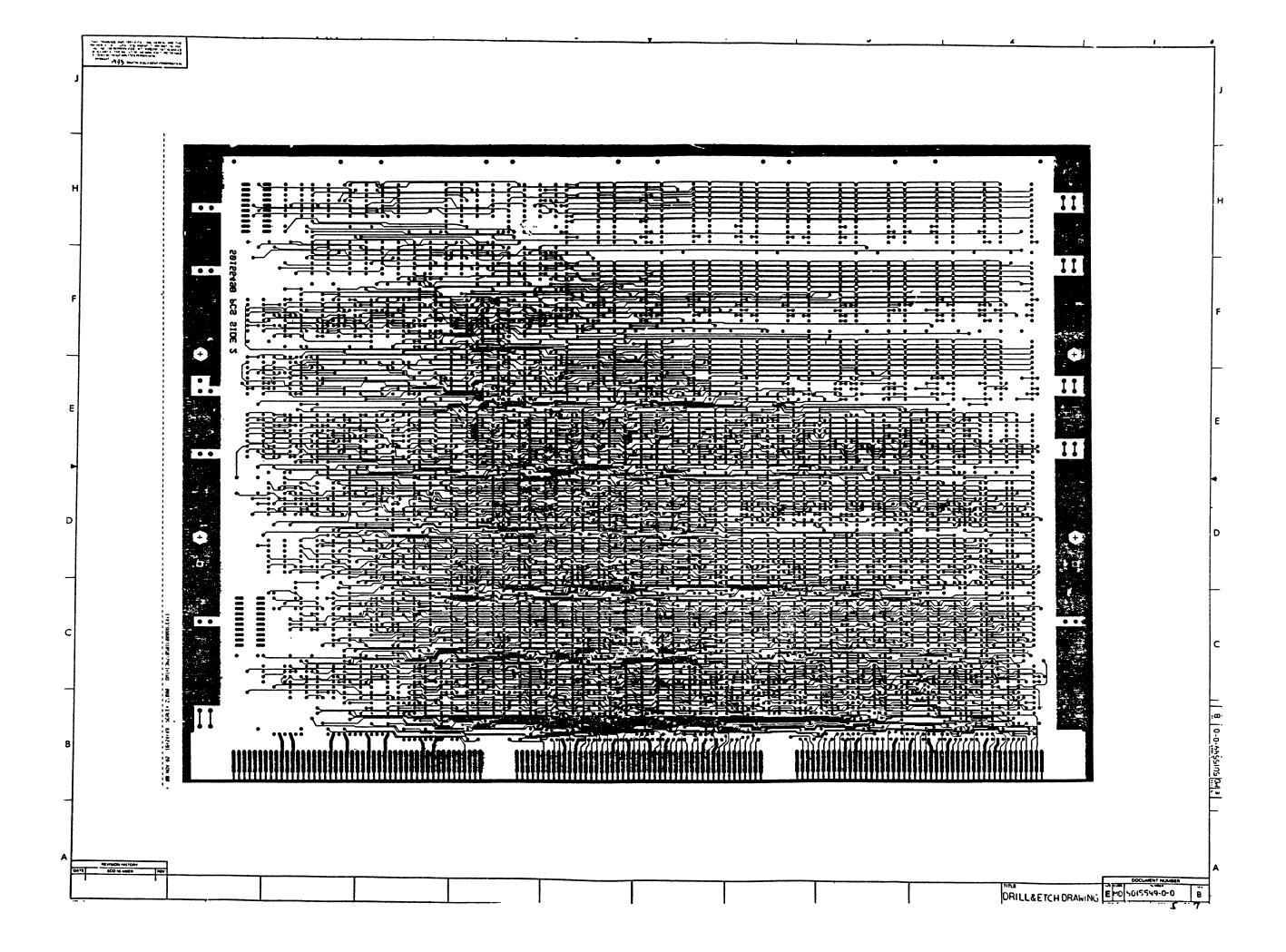


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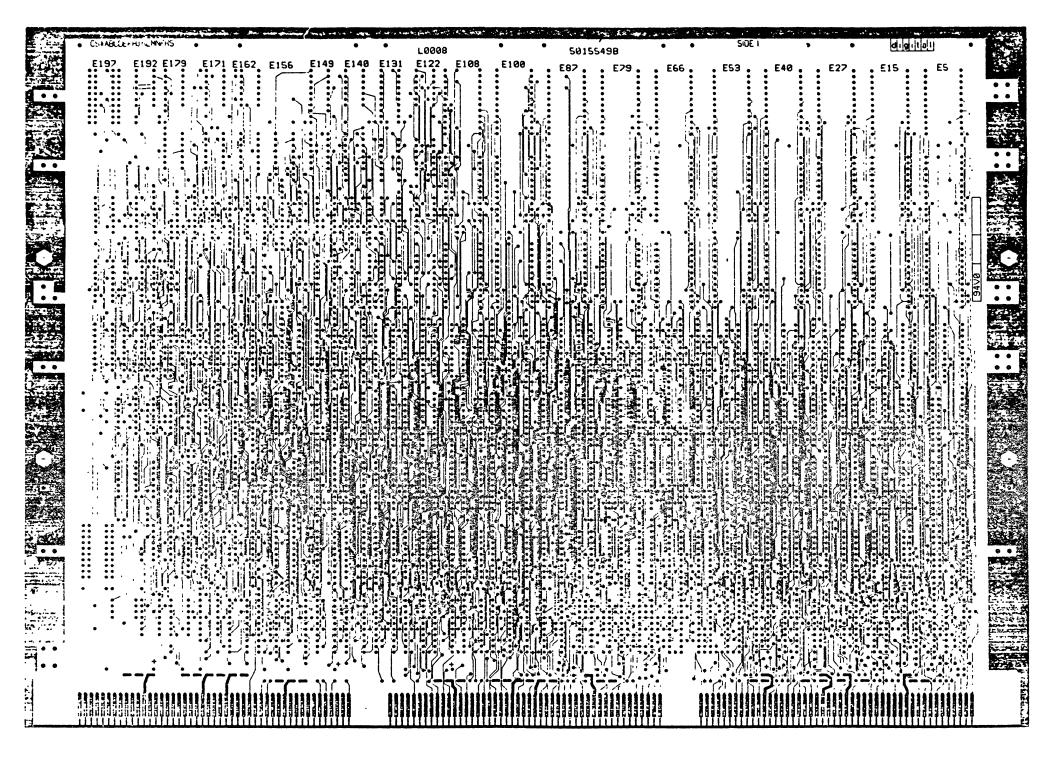
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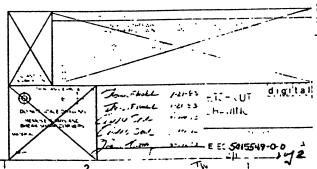
E MY 5015549-0-0 CRILL&ETCH CRAWING

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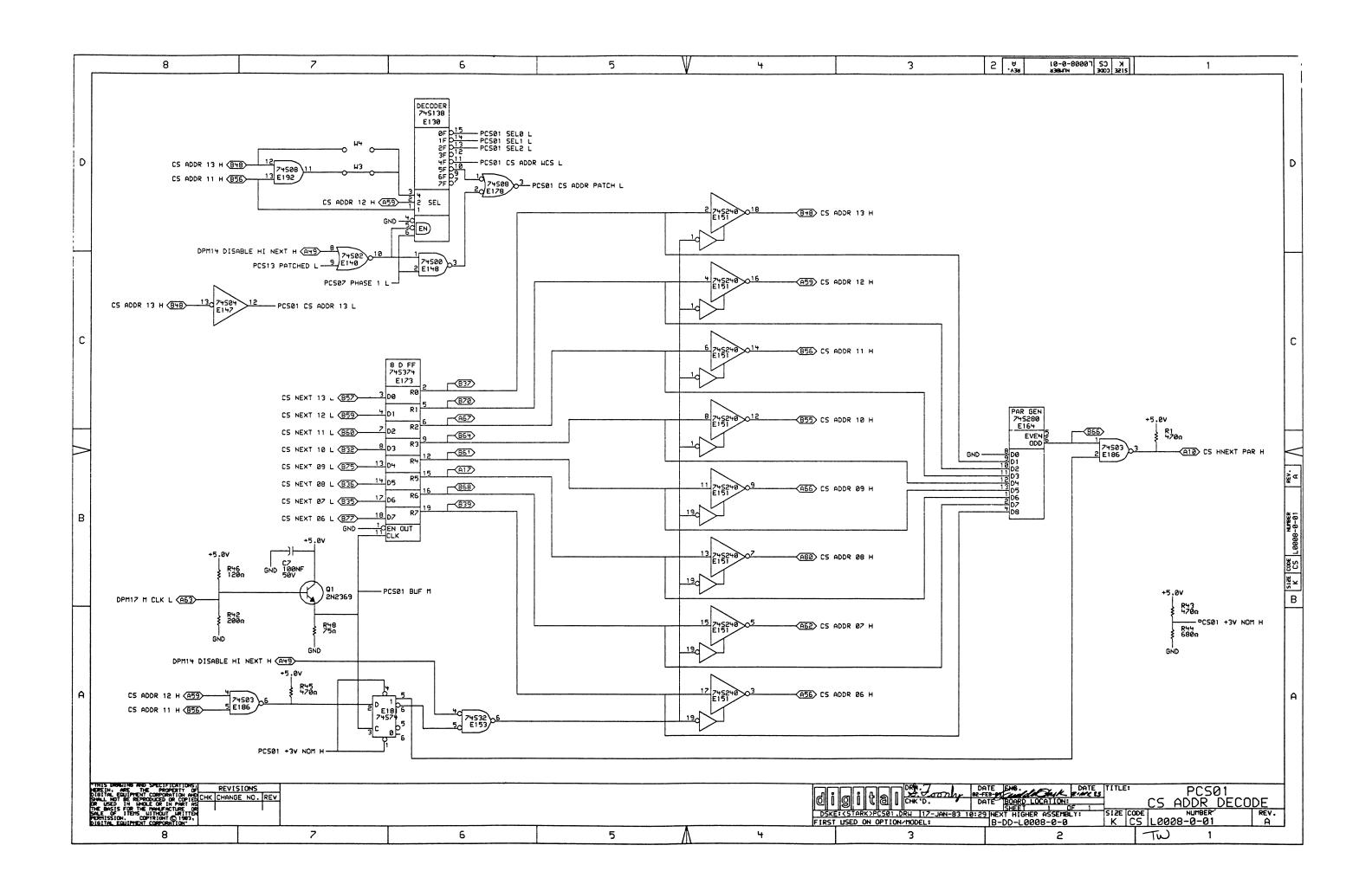


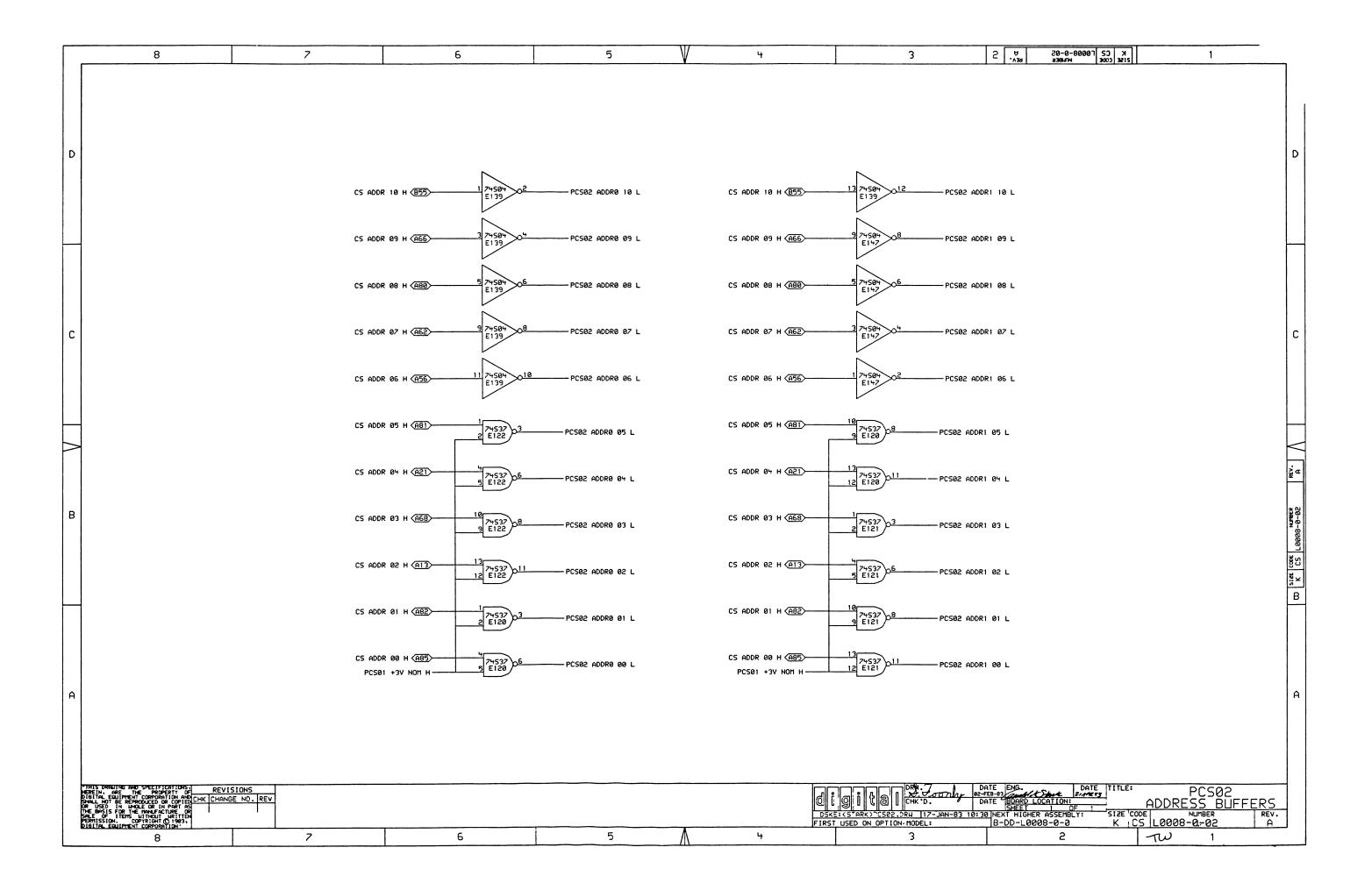


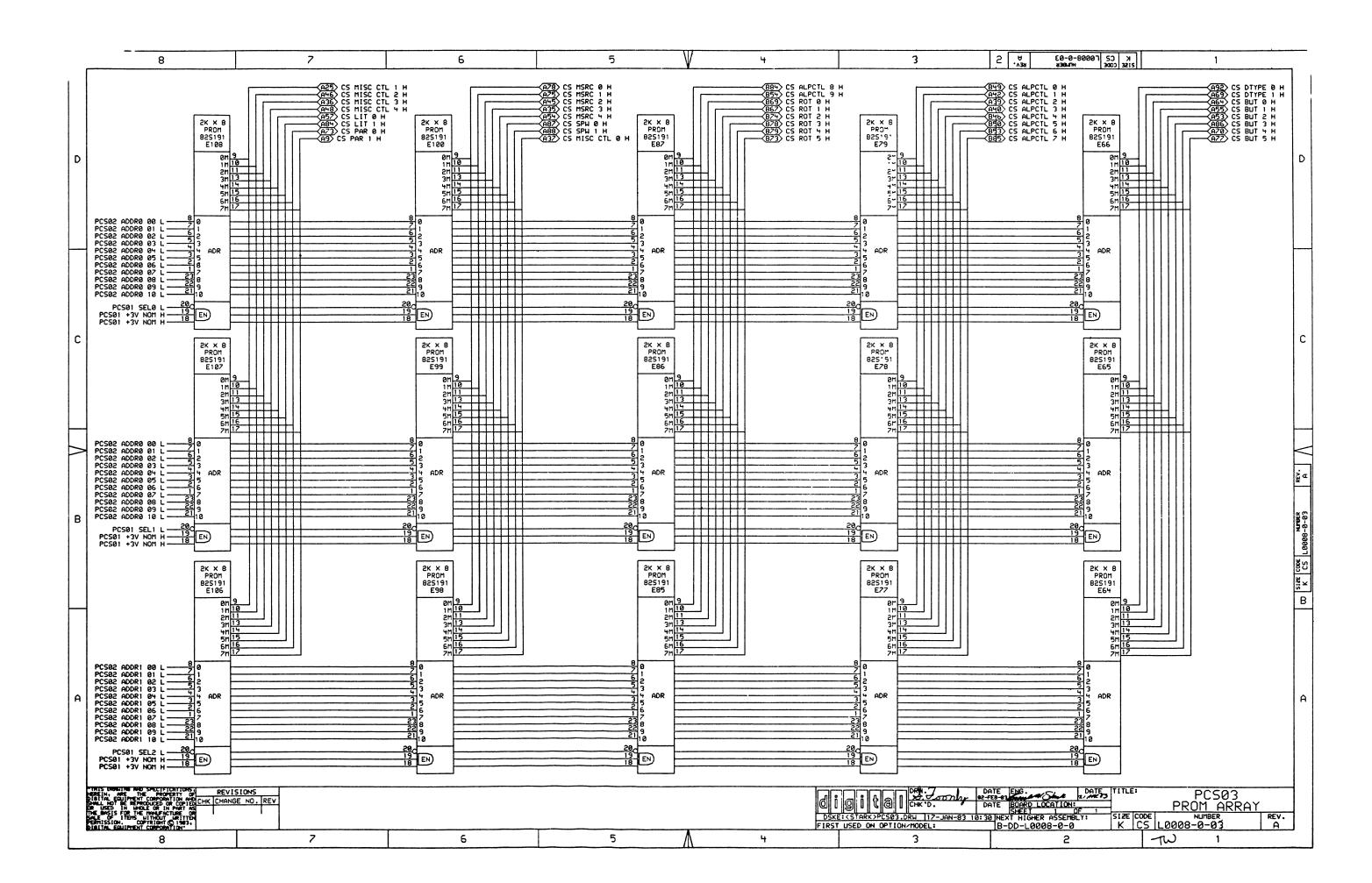
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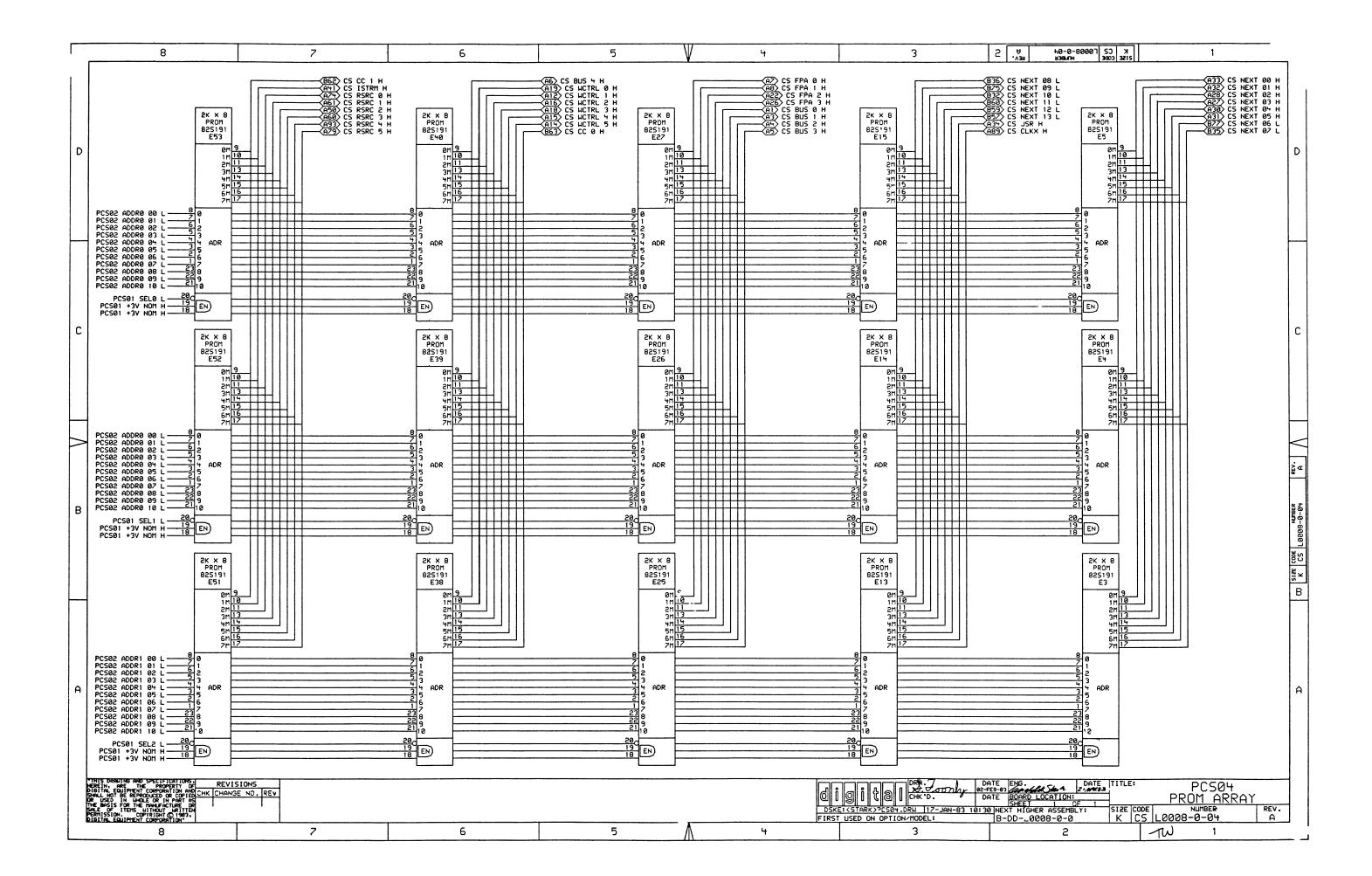
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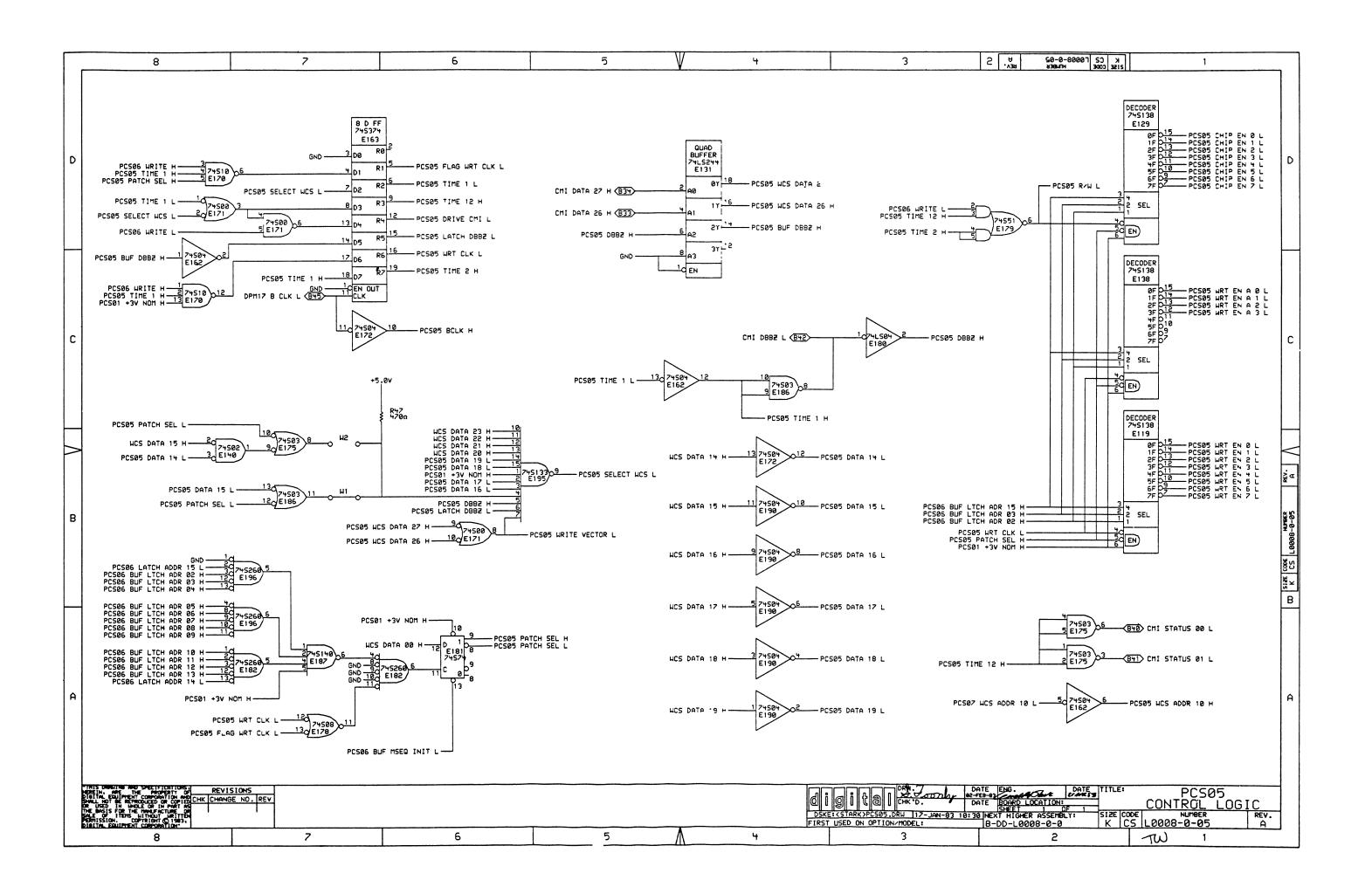
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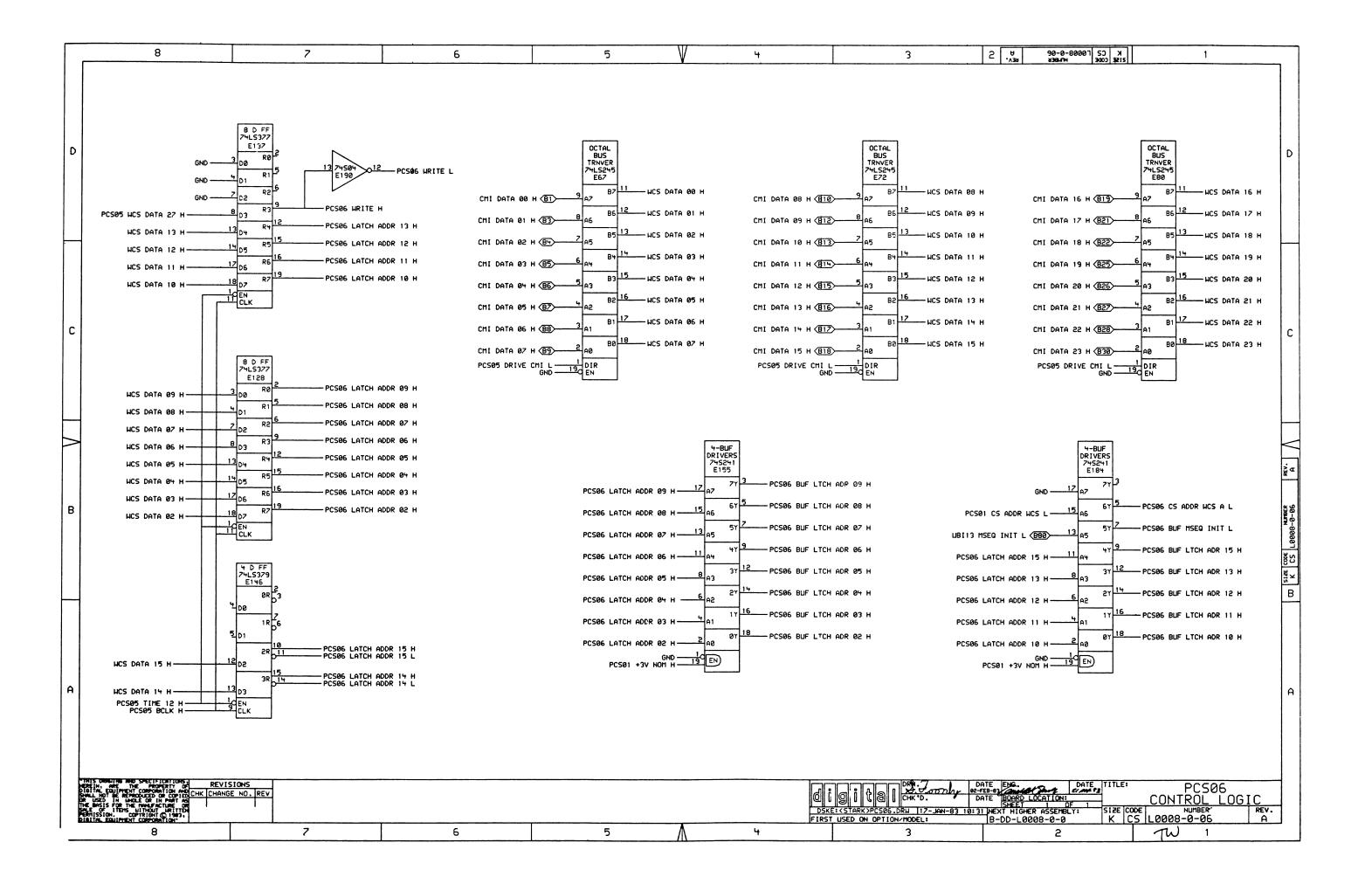


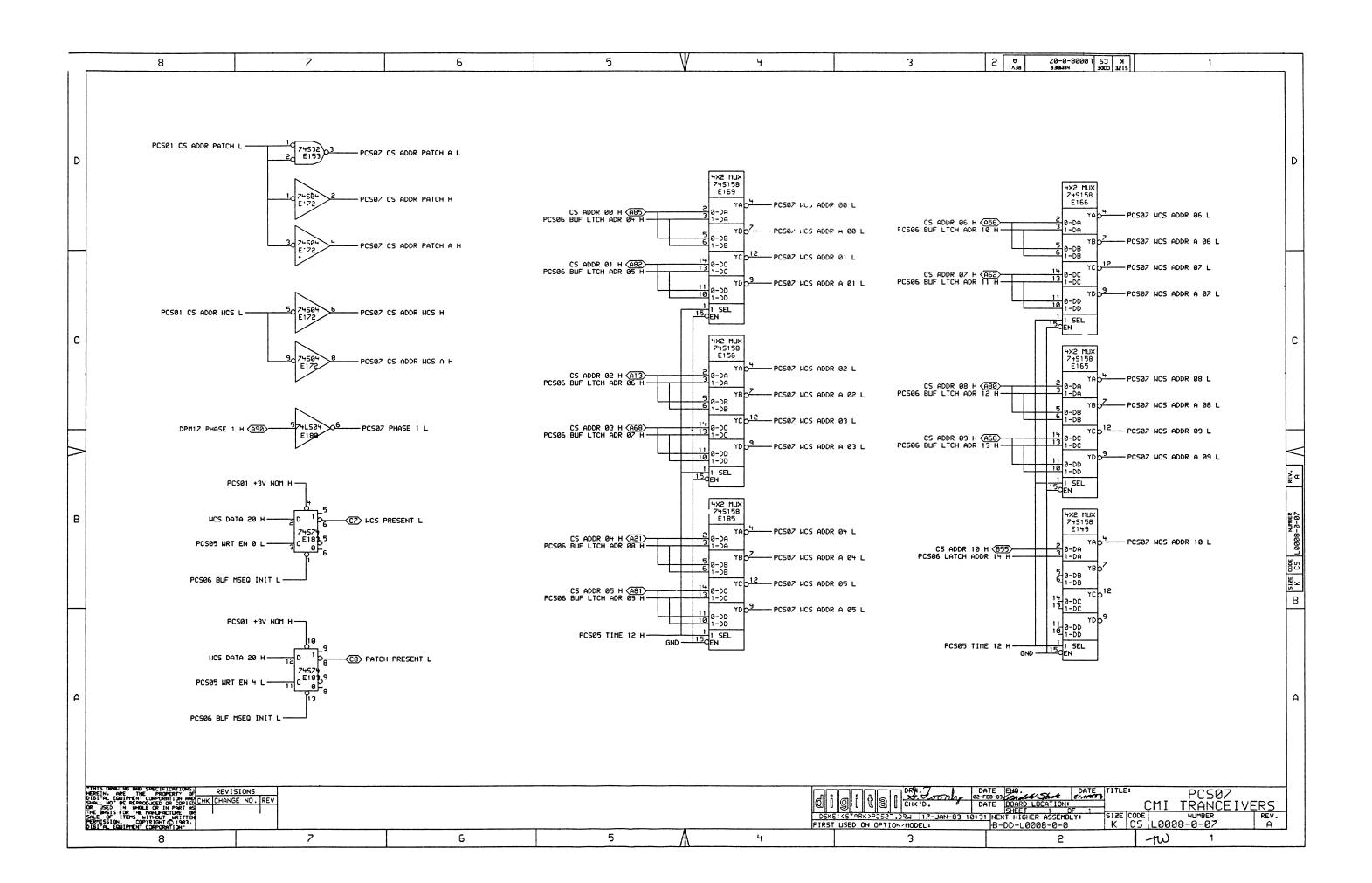


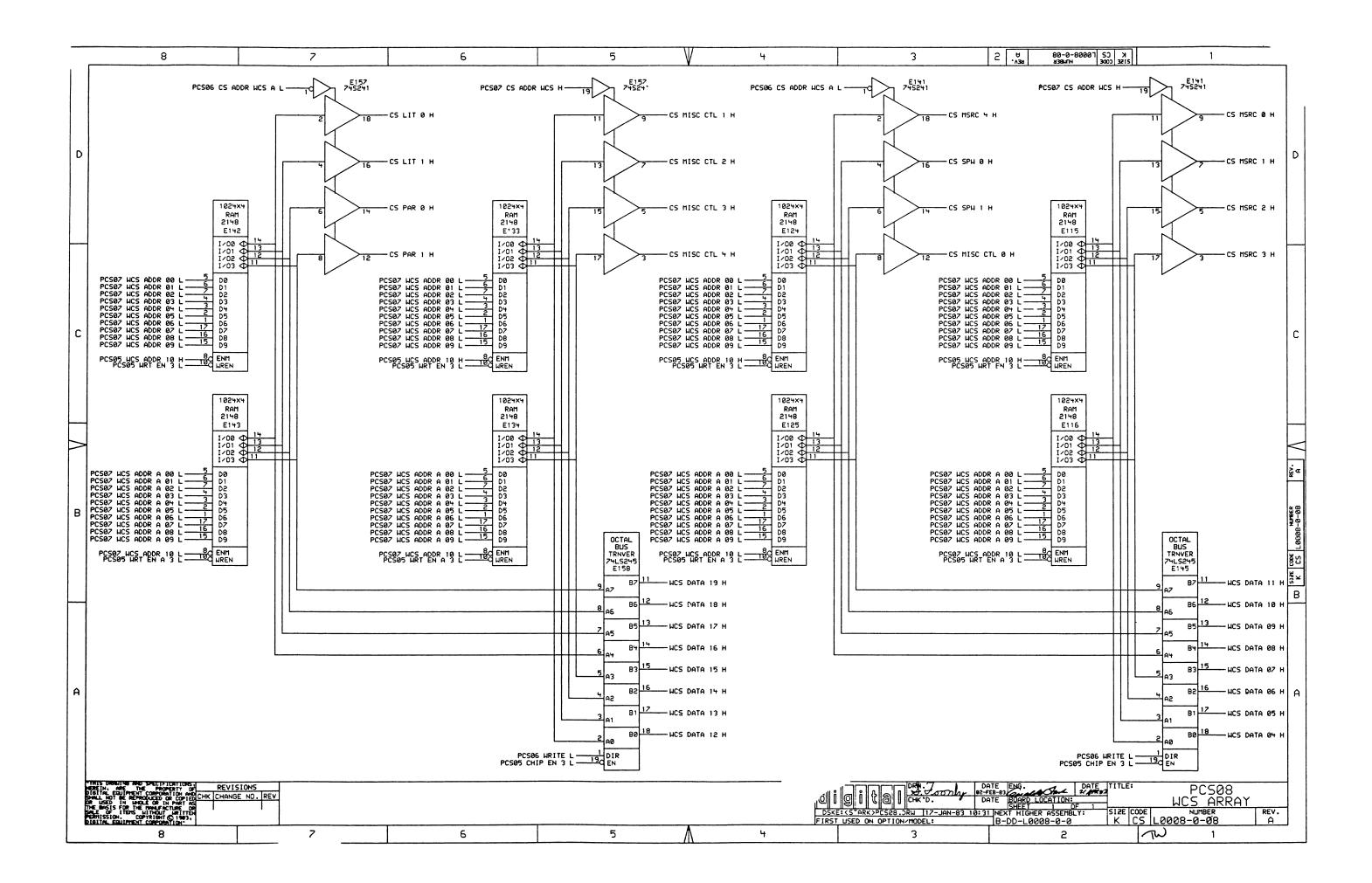


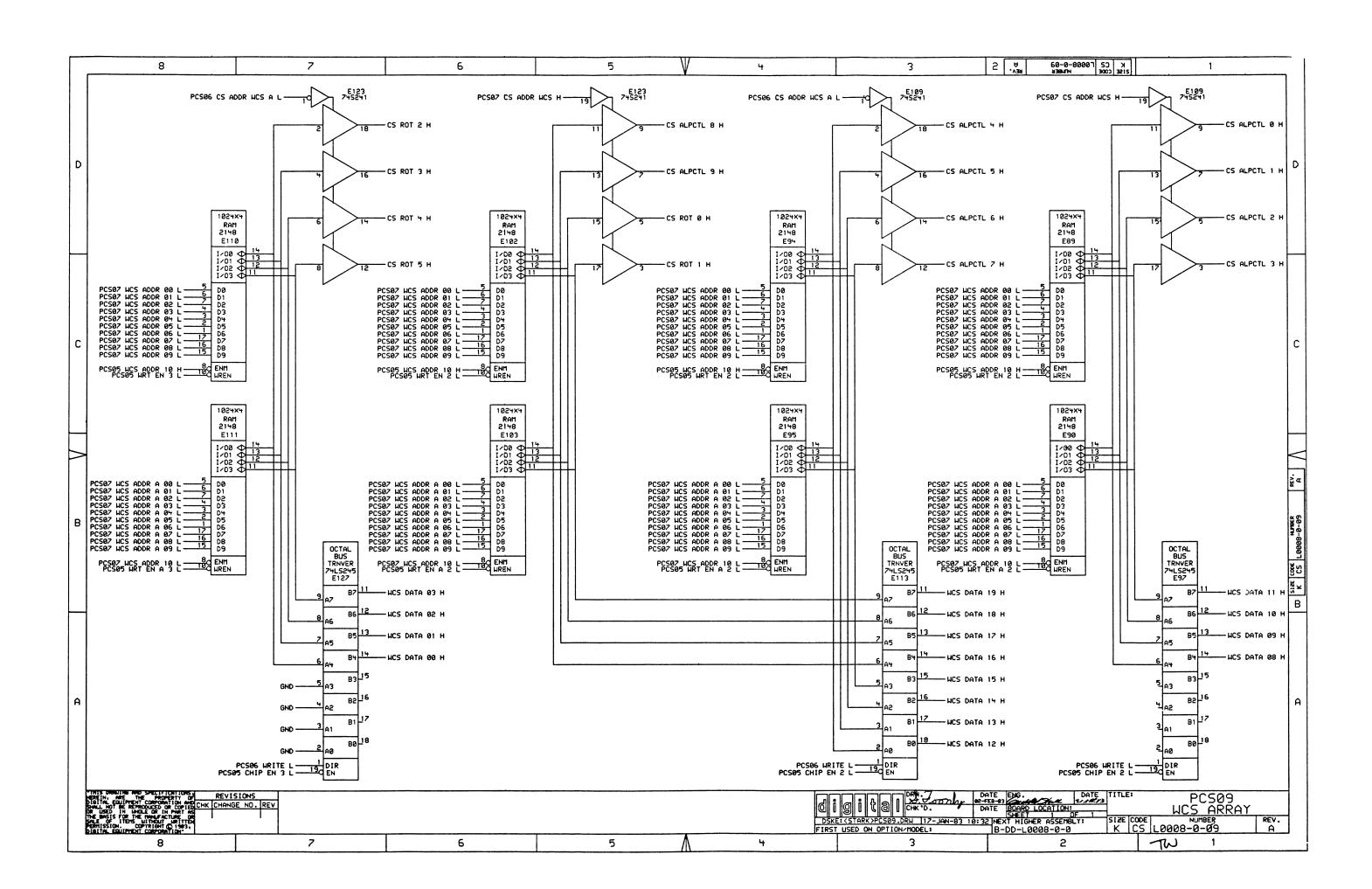


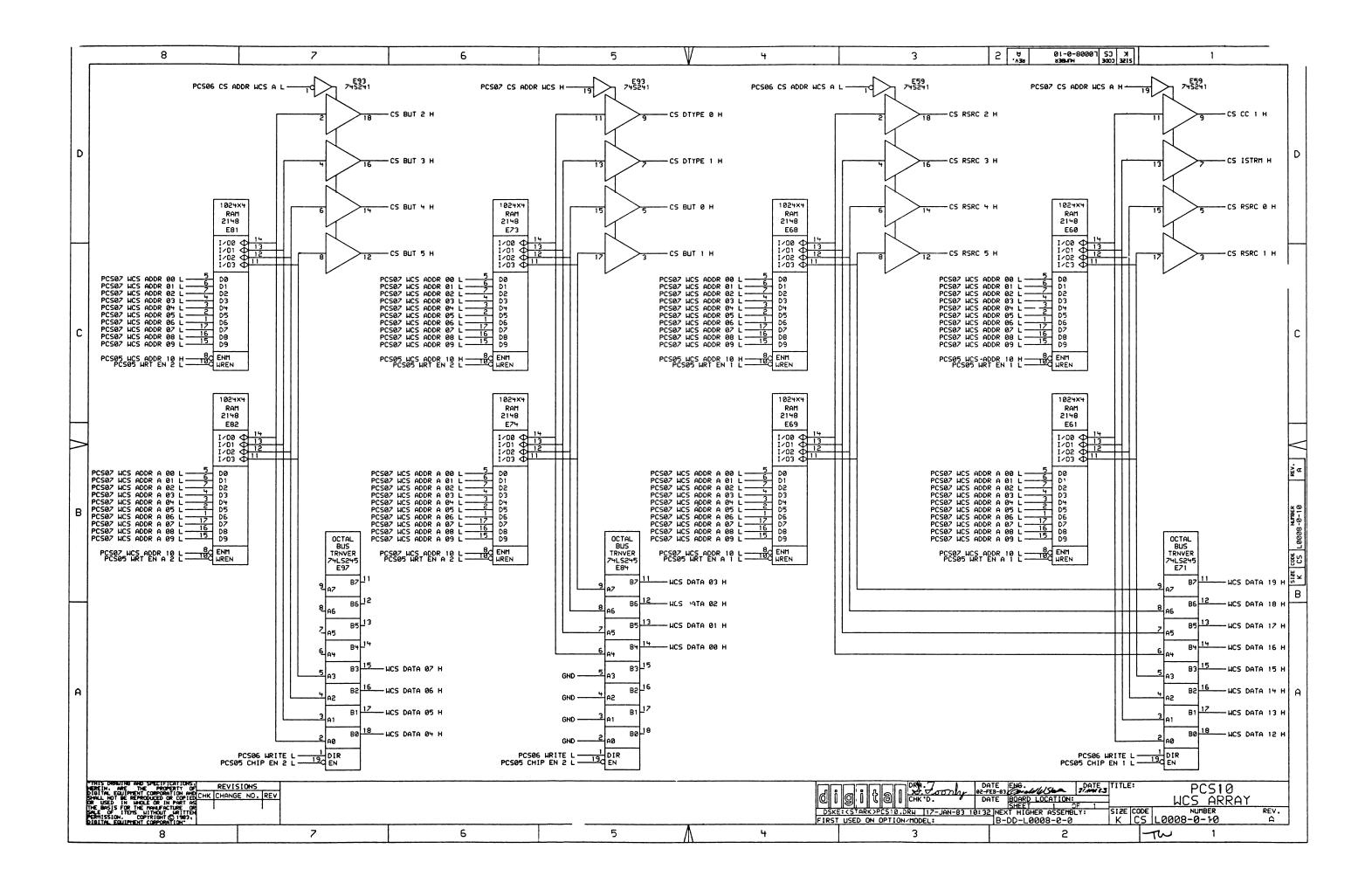


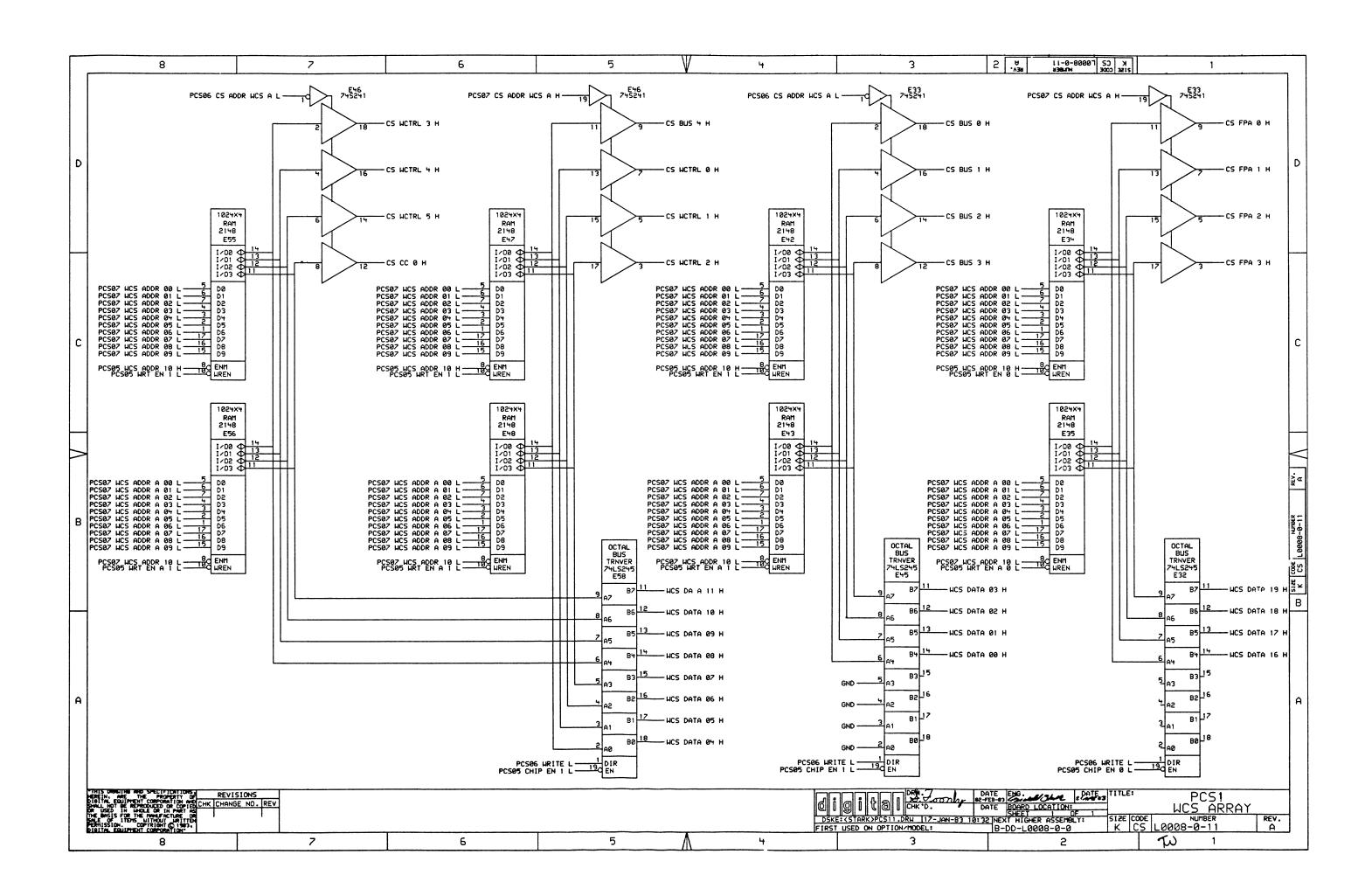


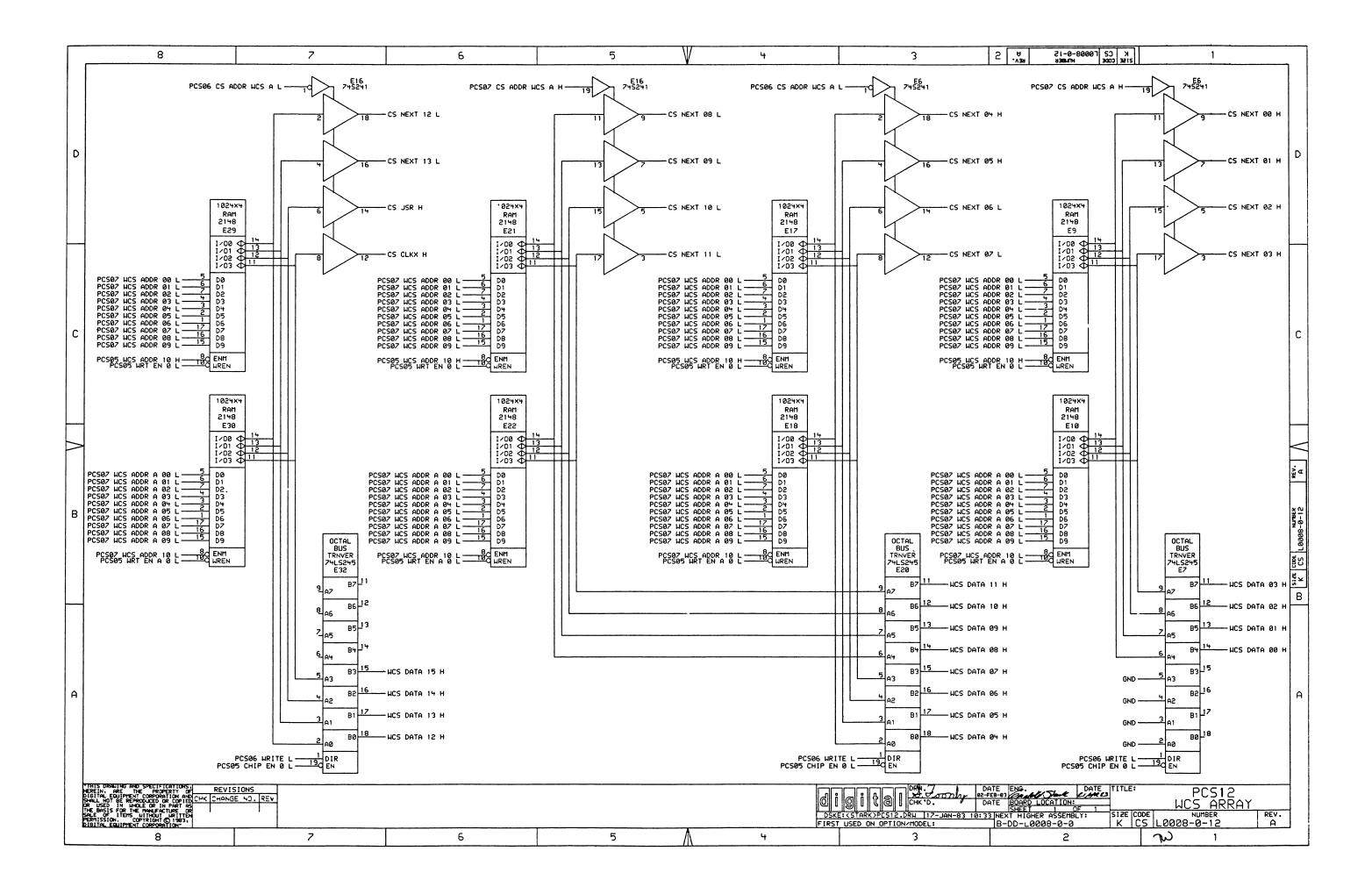


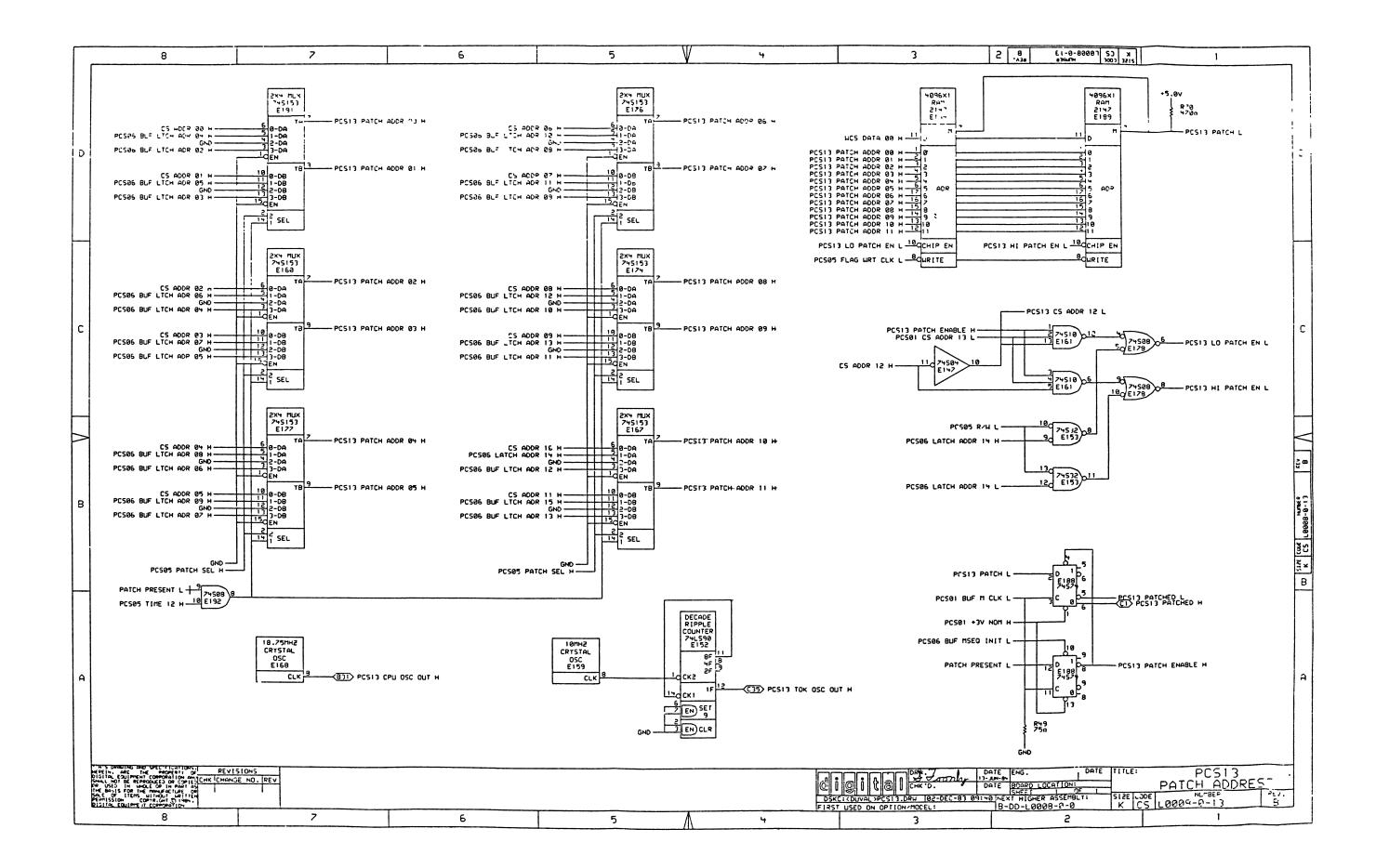


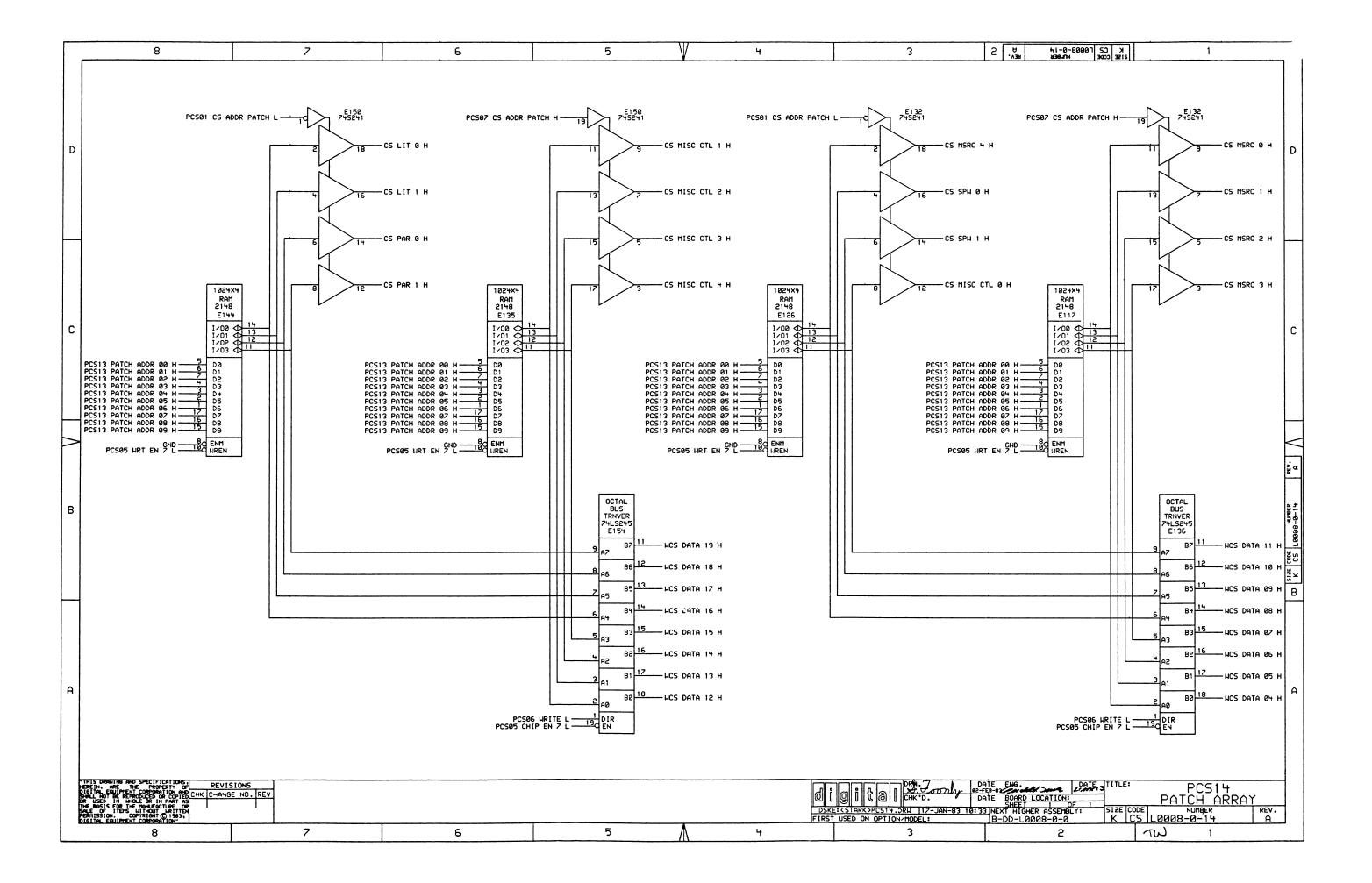


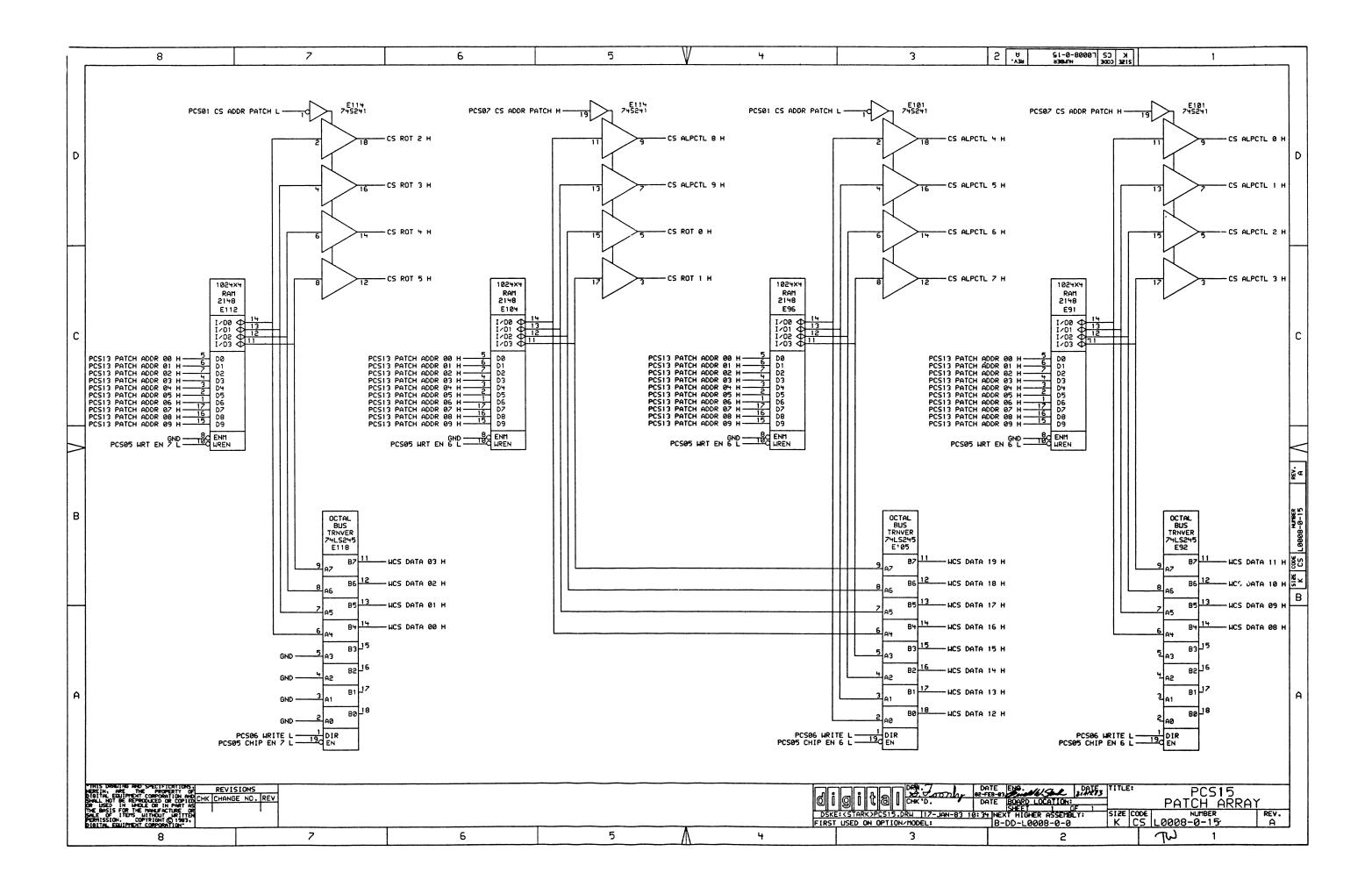


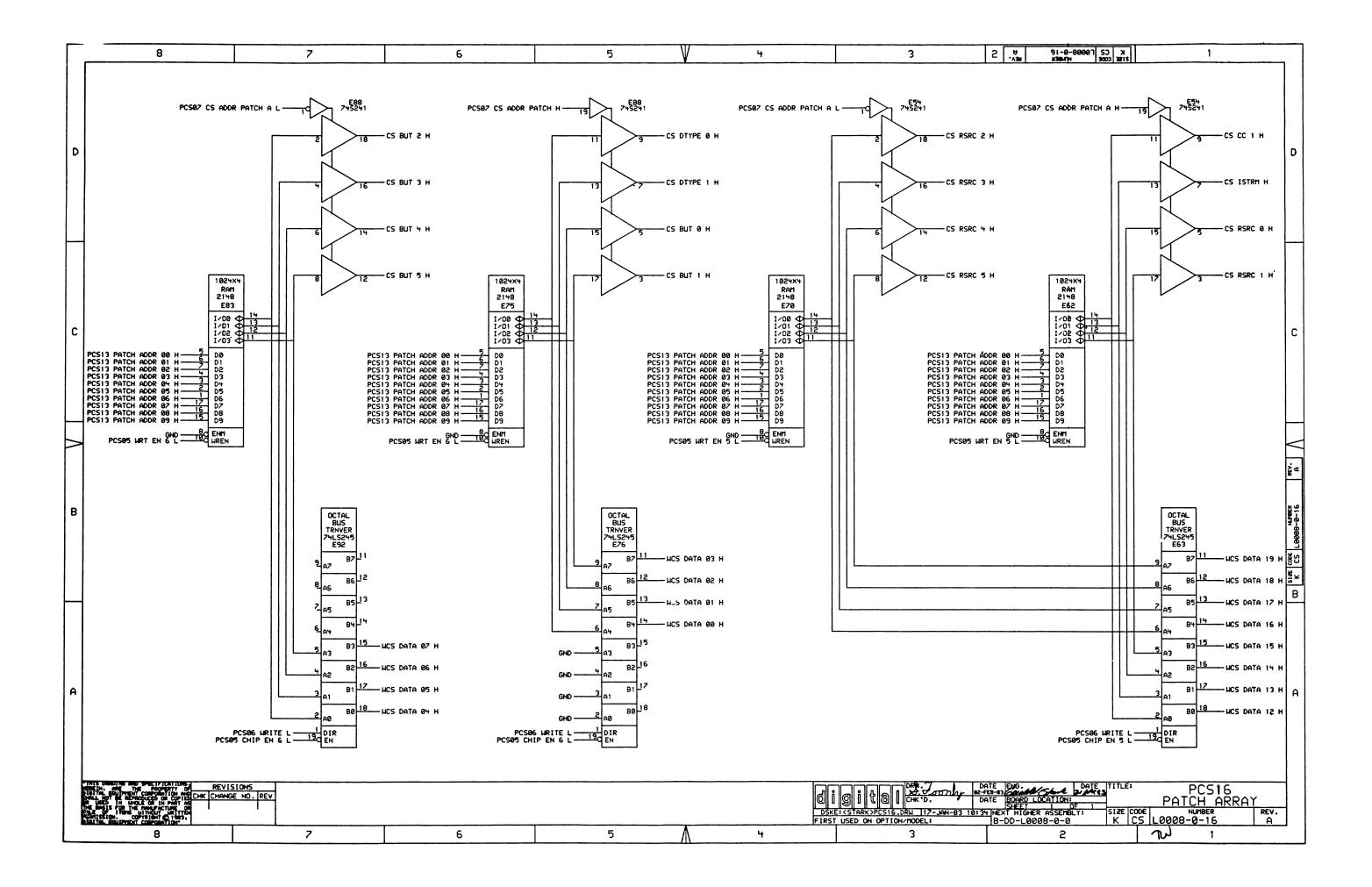


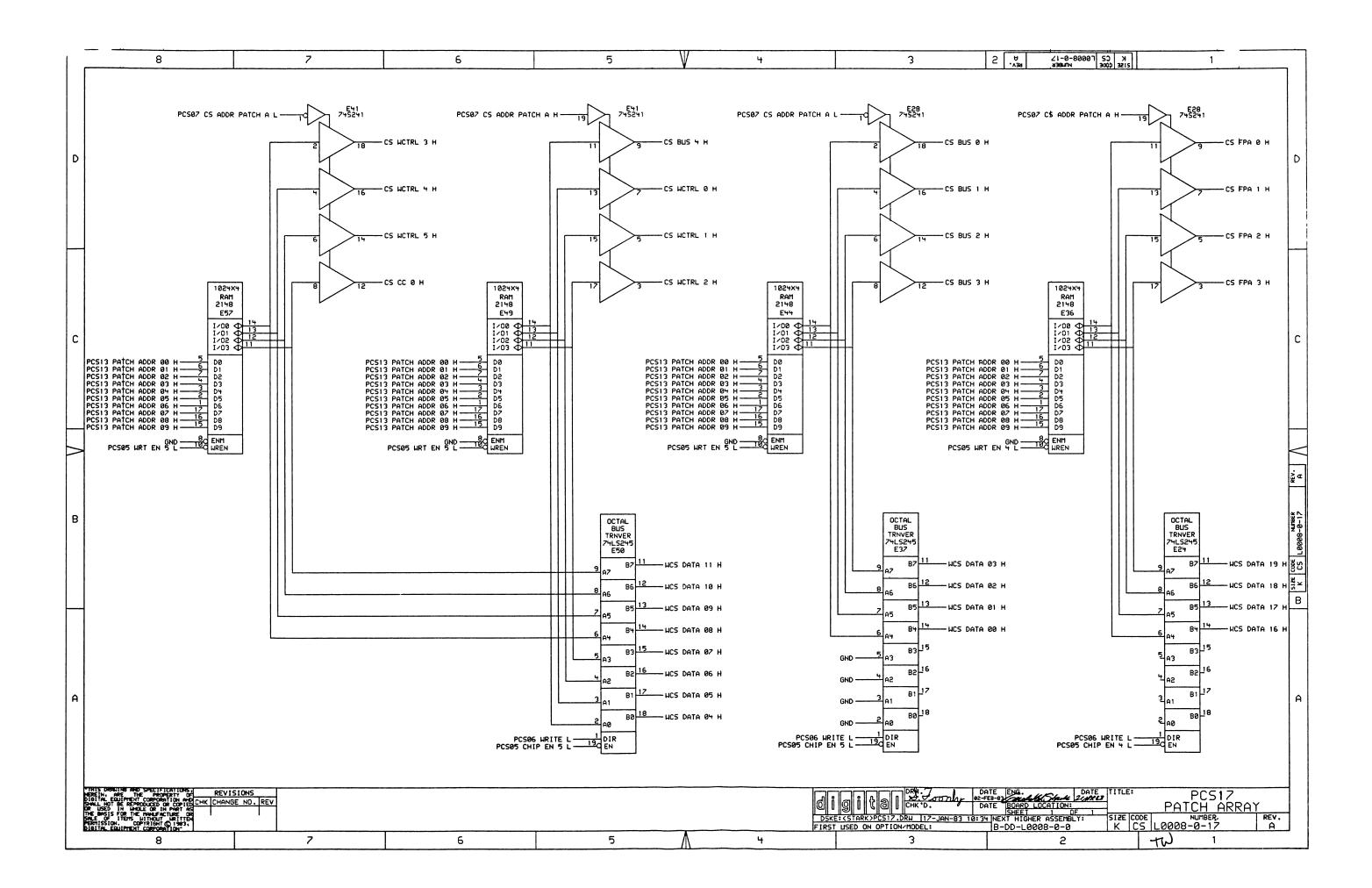


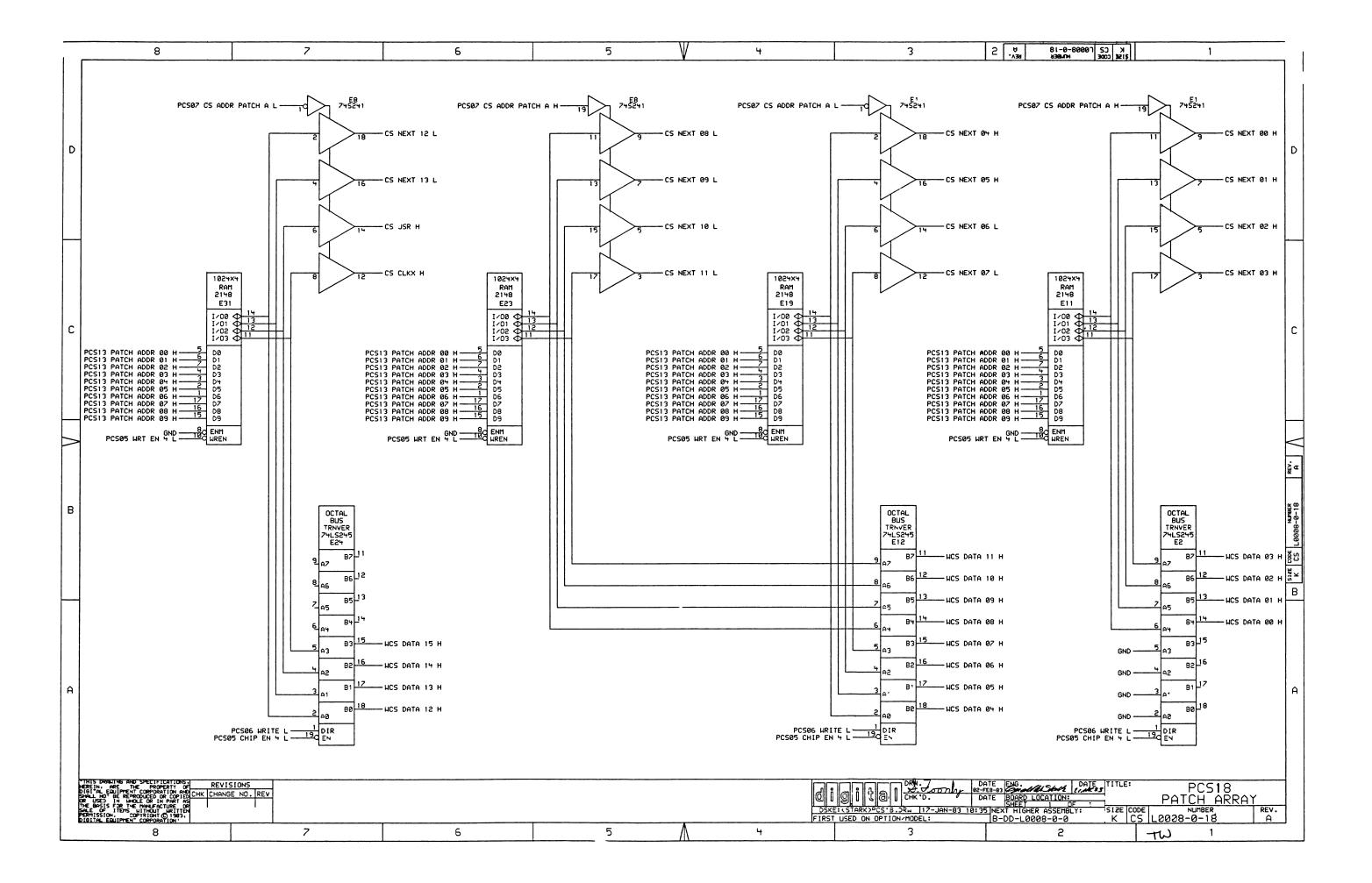


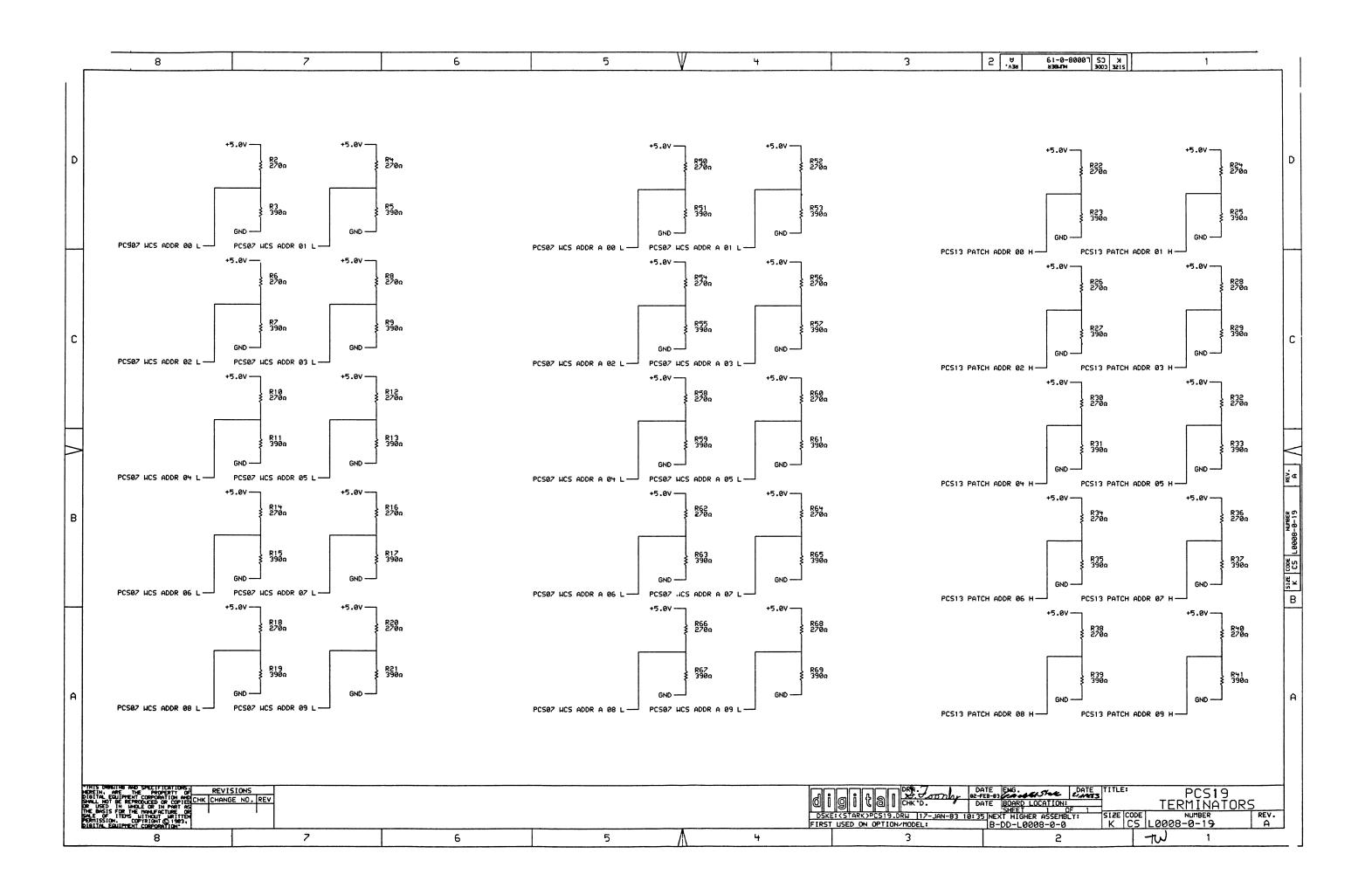


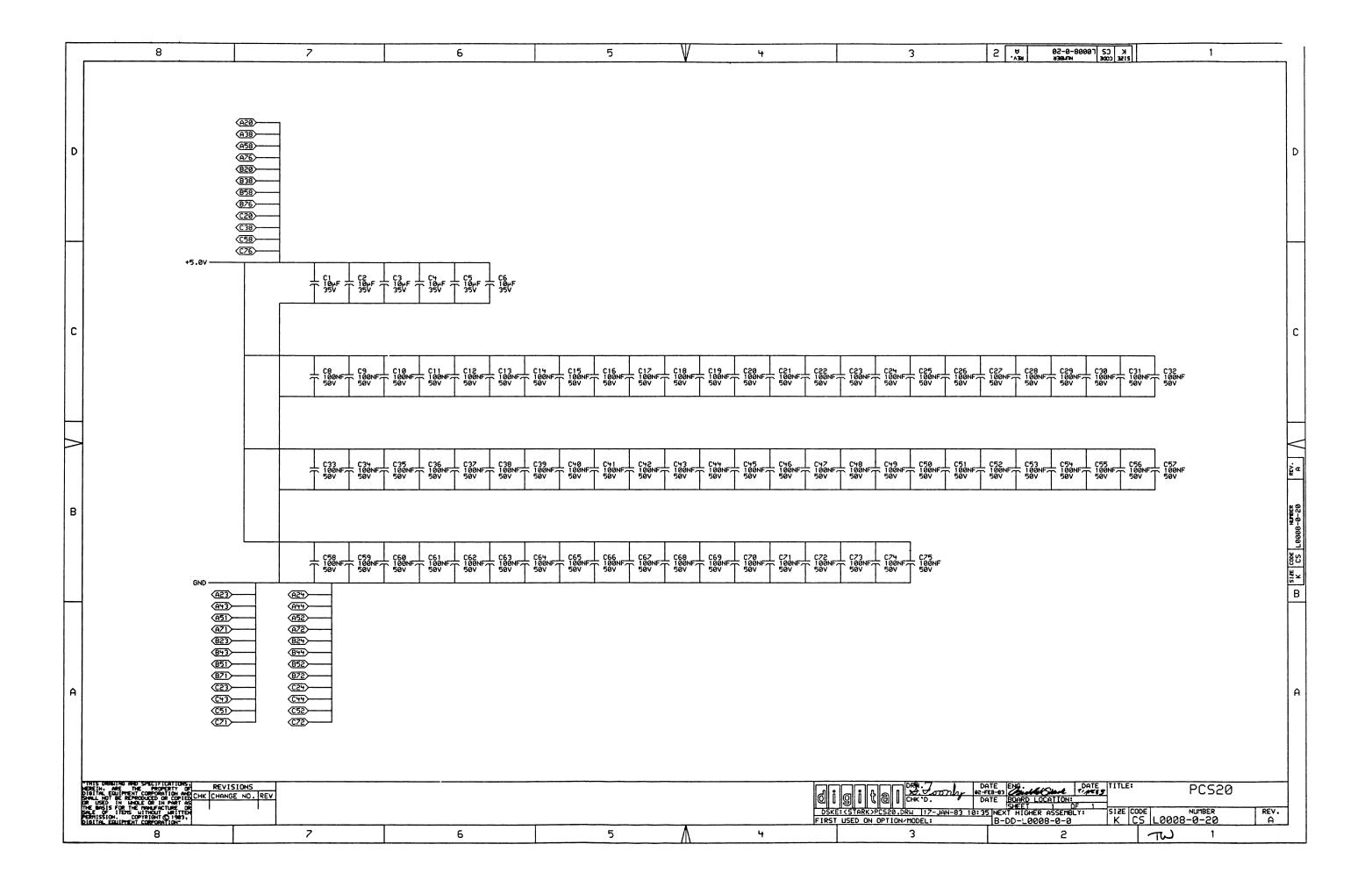










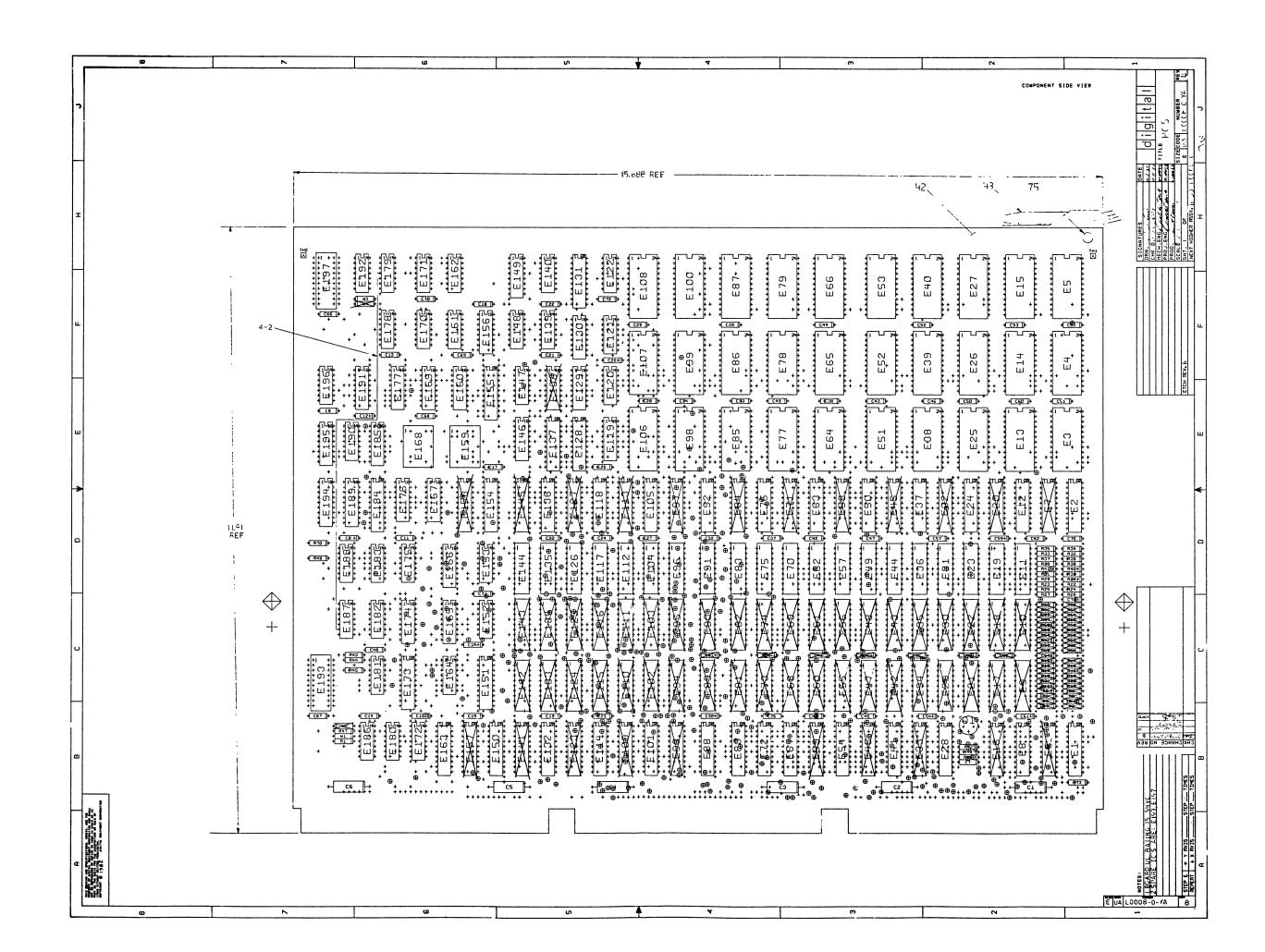


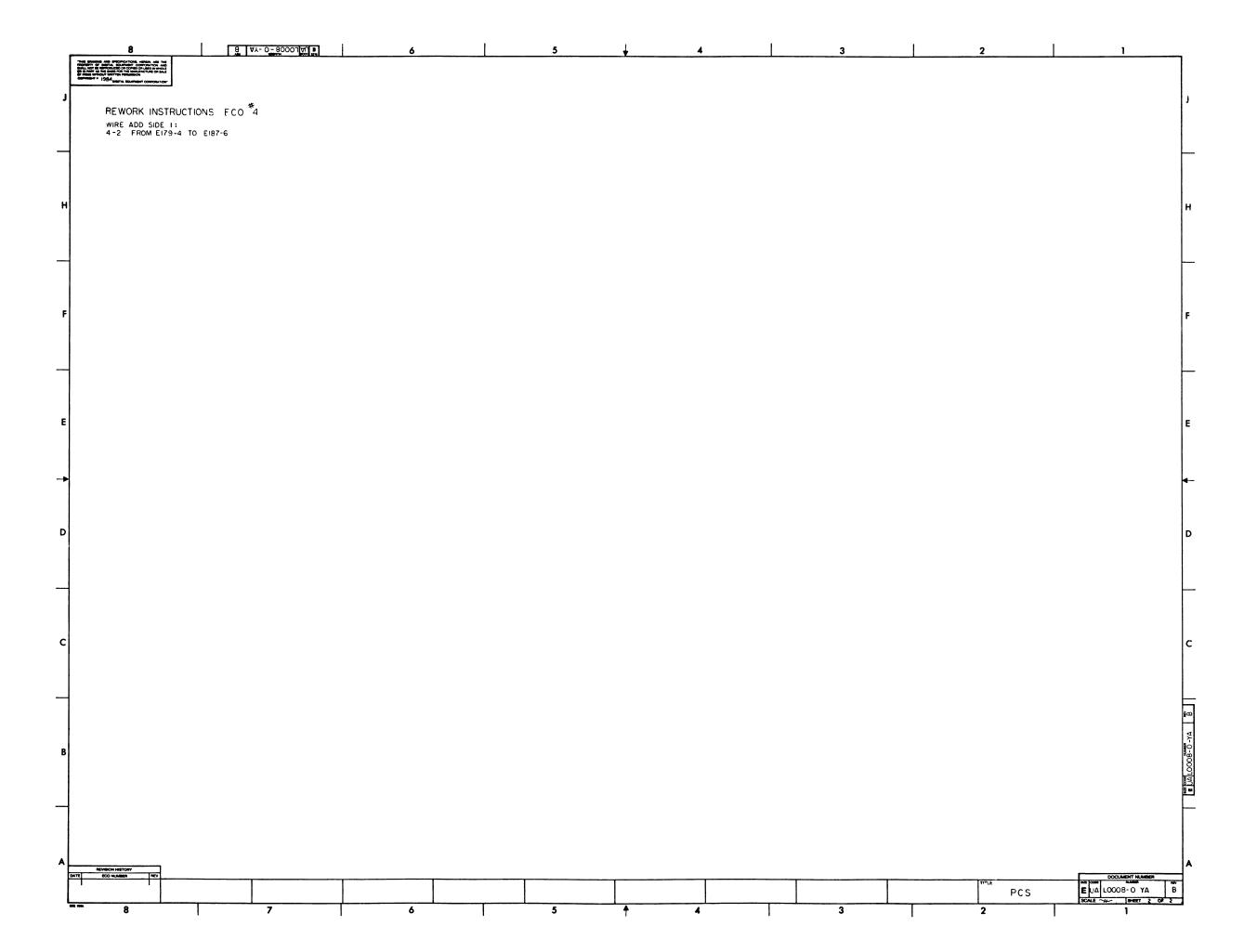
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CHK'D TITLE **USED ON OPTION/MODEL** "THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PRO-54-84 PCS PERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF REV. SIZÉ CODE NUMBER ENG. ITEMS WITHOUT WRITTEN PERMISSION. **B** | **DD** | L0008-YA PROD. COPYRIGHT® 1984 DIGITAL EQUIPMENT CORPORATION SHEET | OF 2

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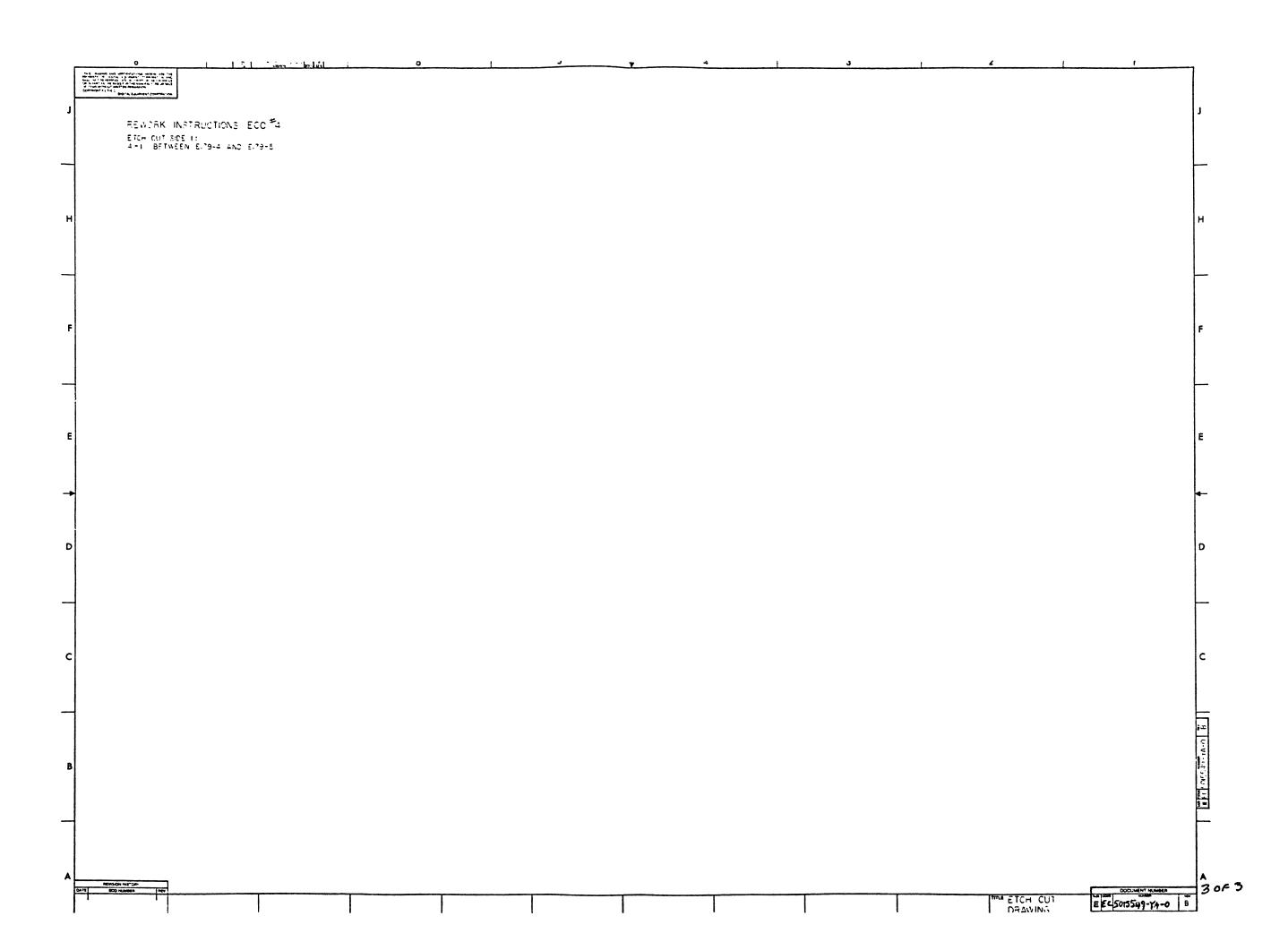
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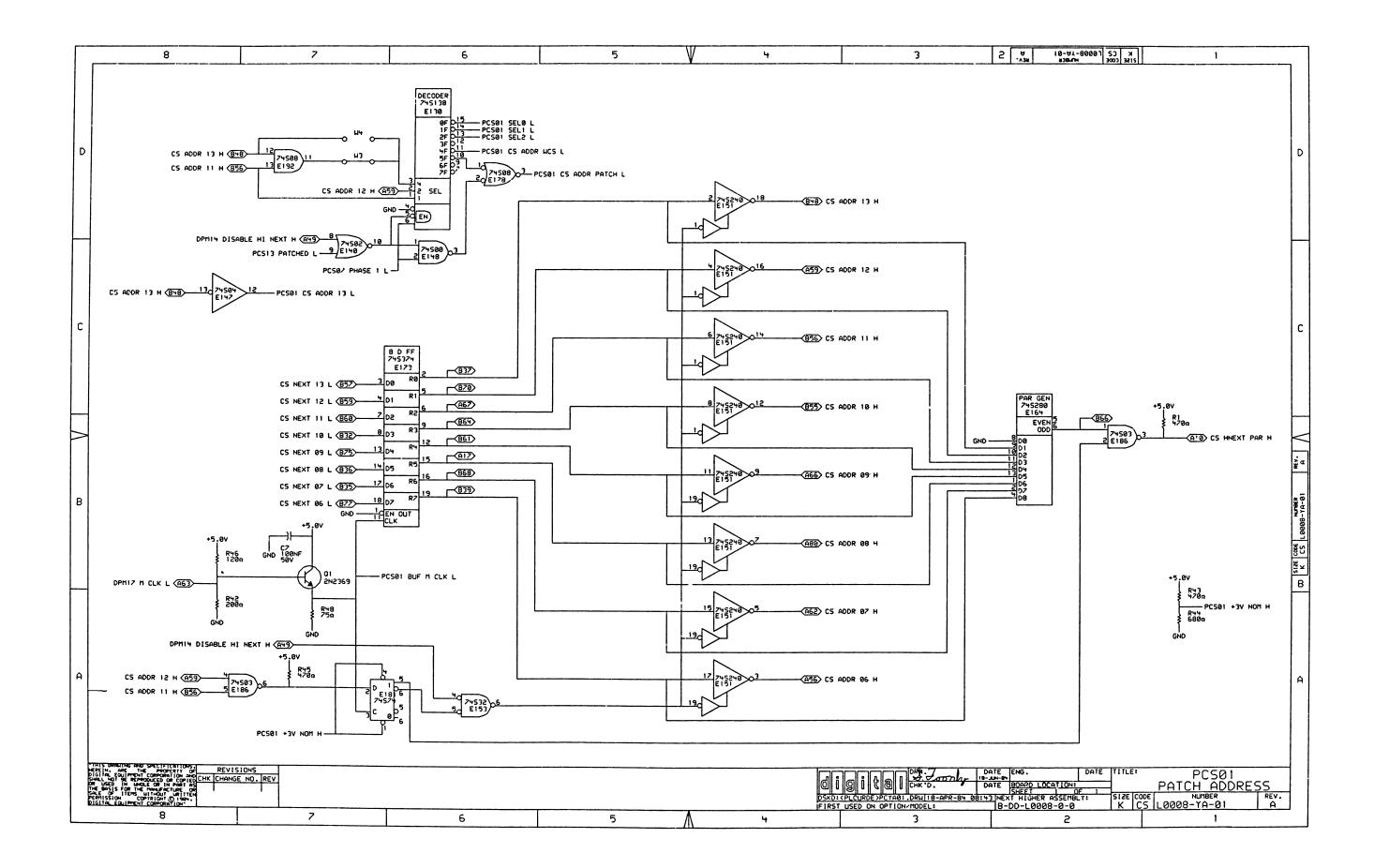
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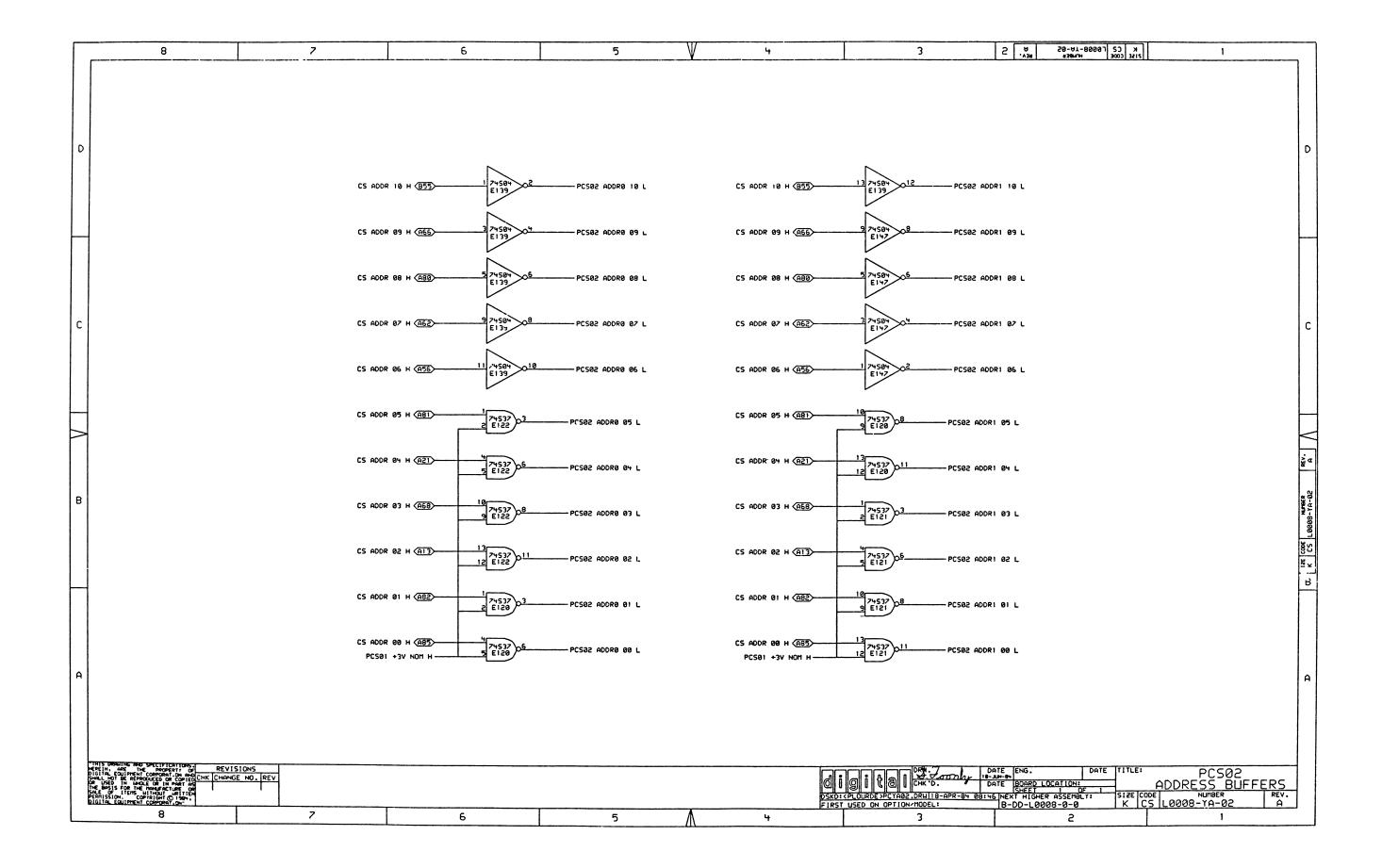
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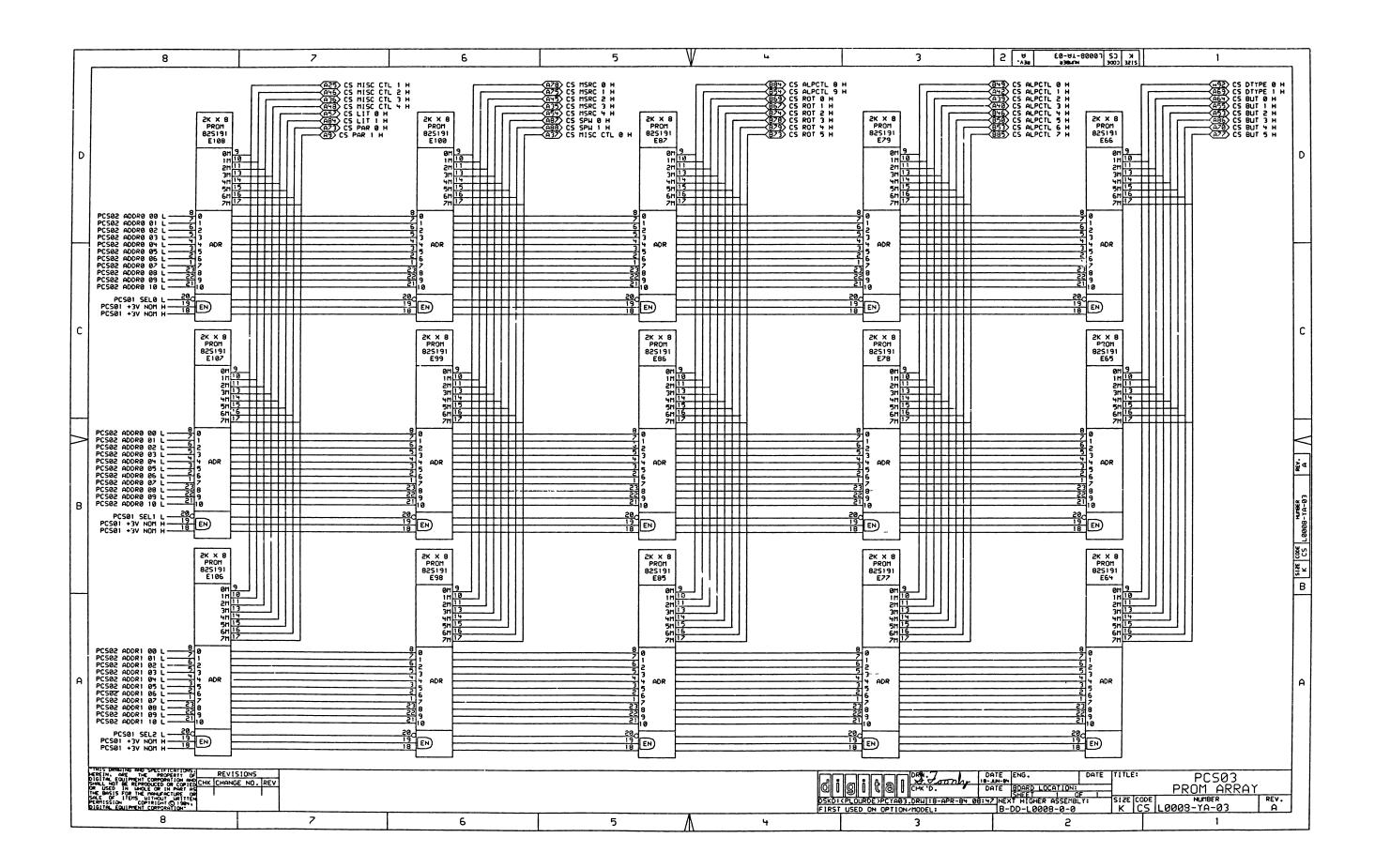
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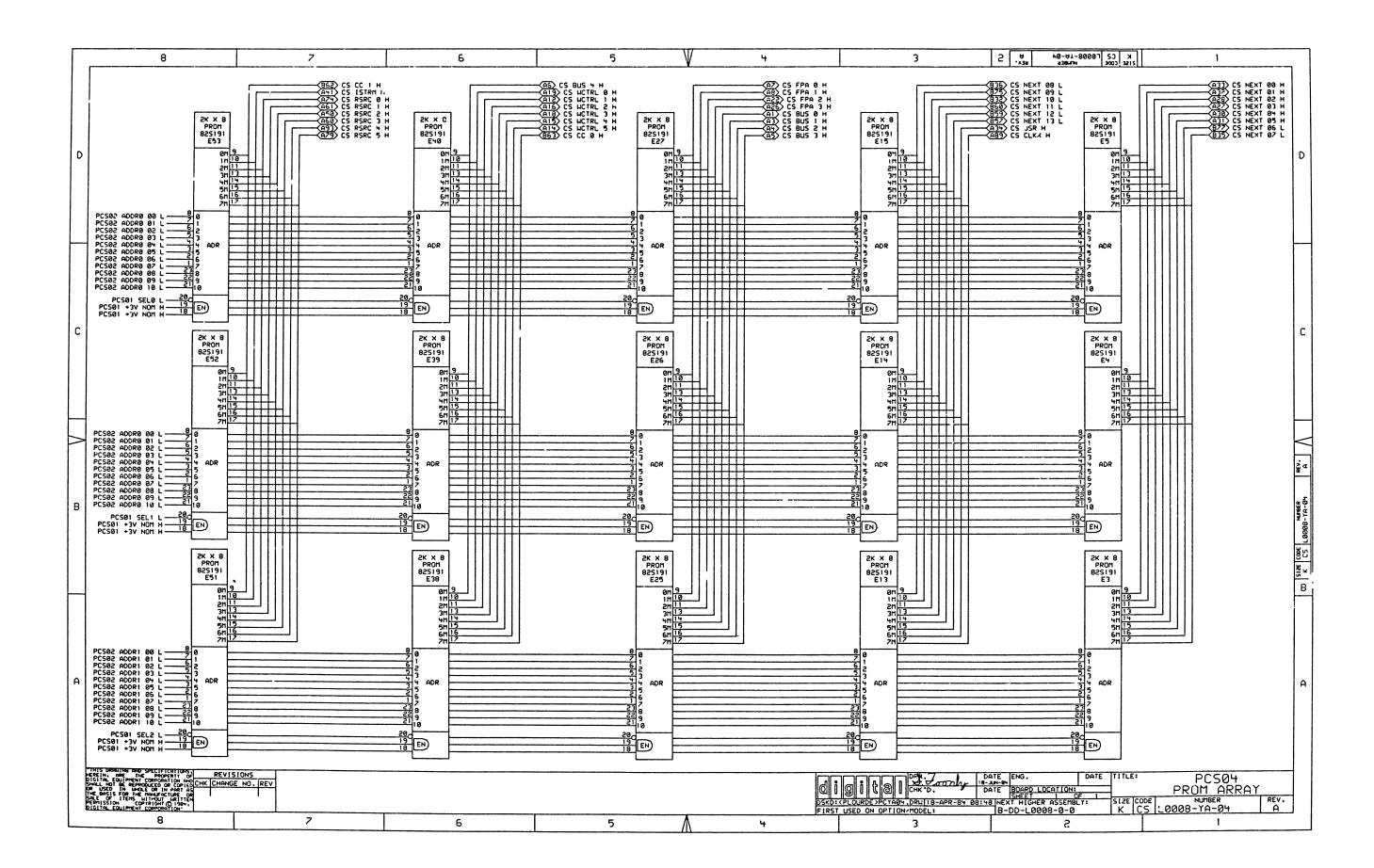
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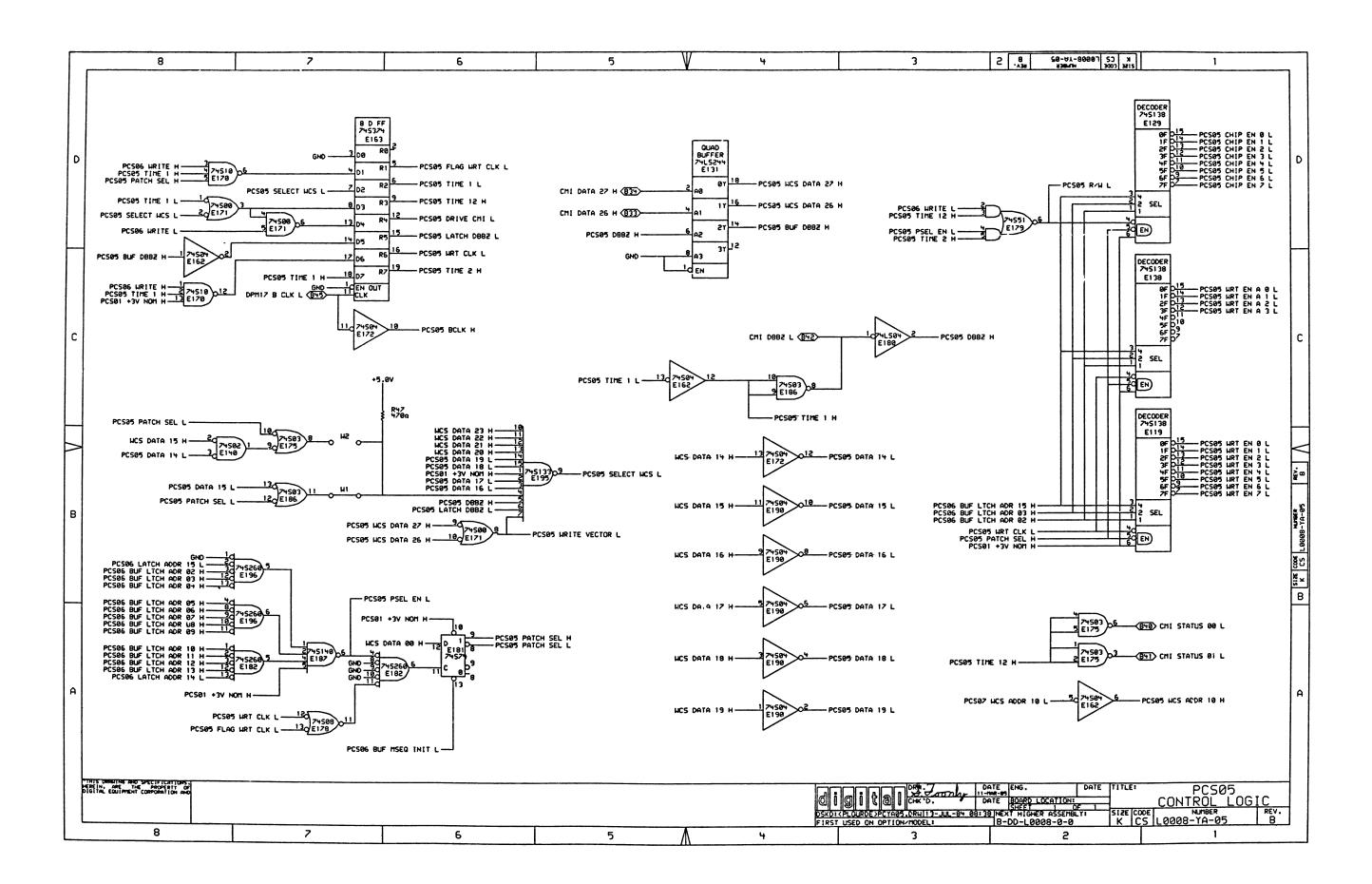


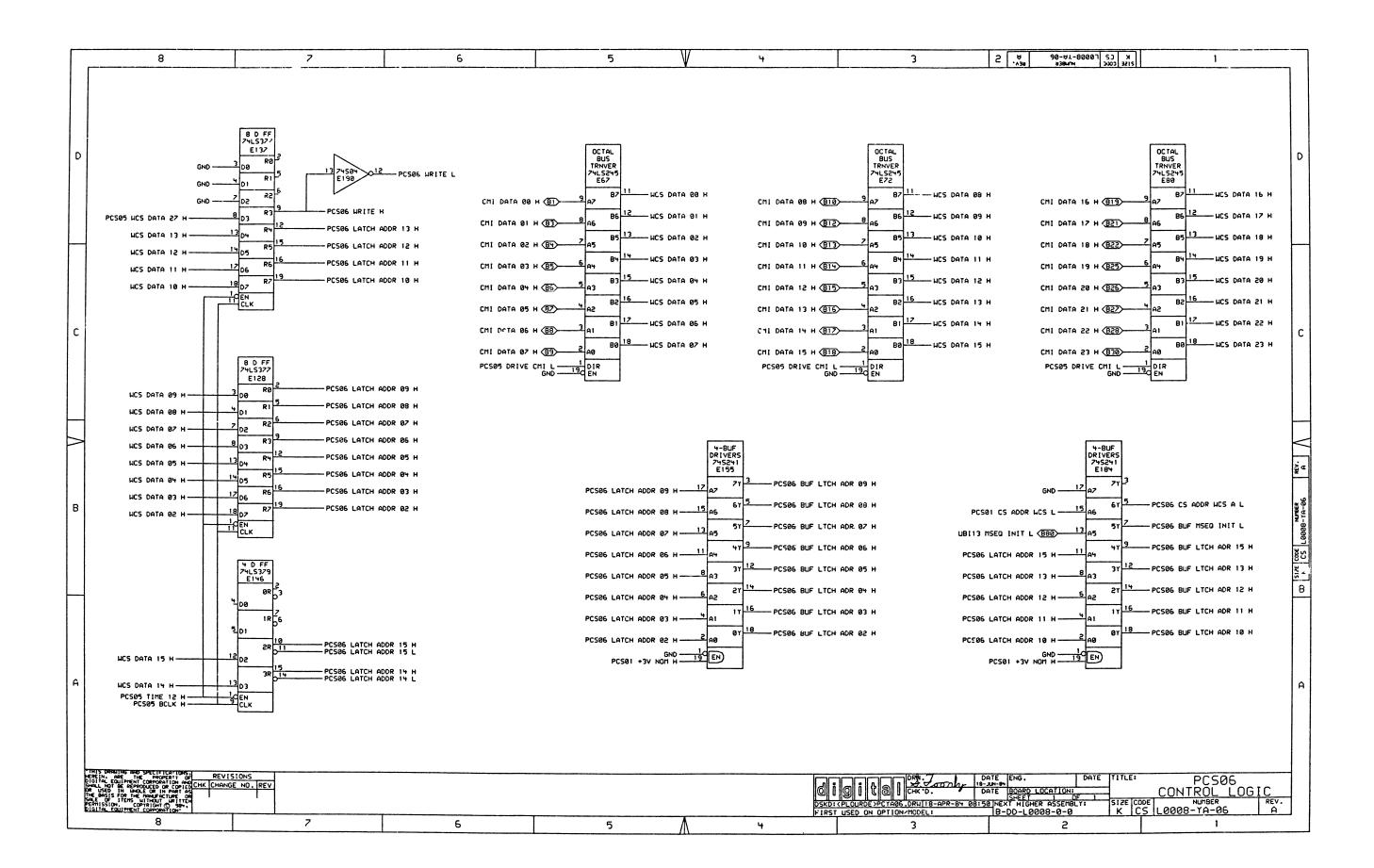


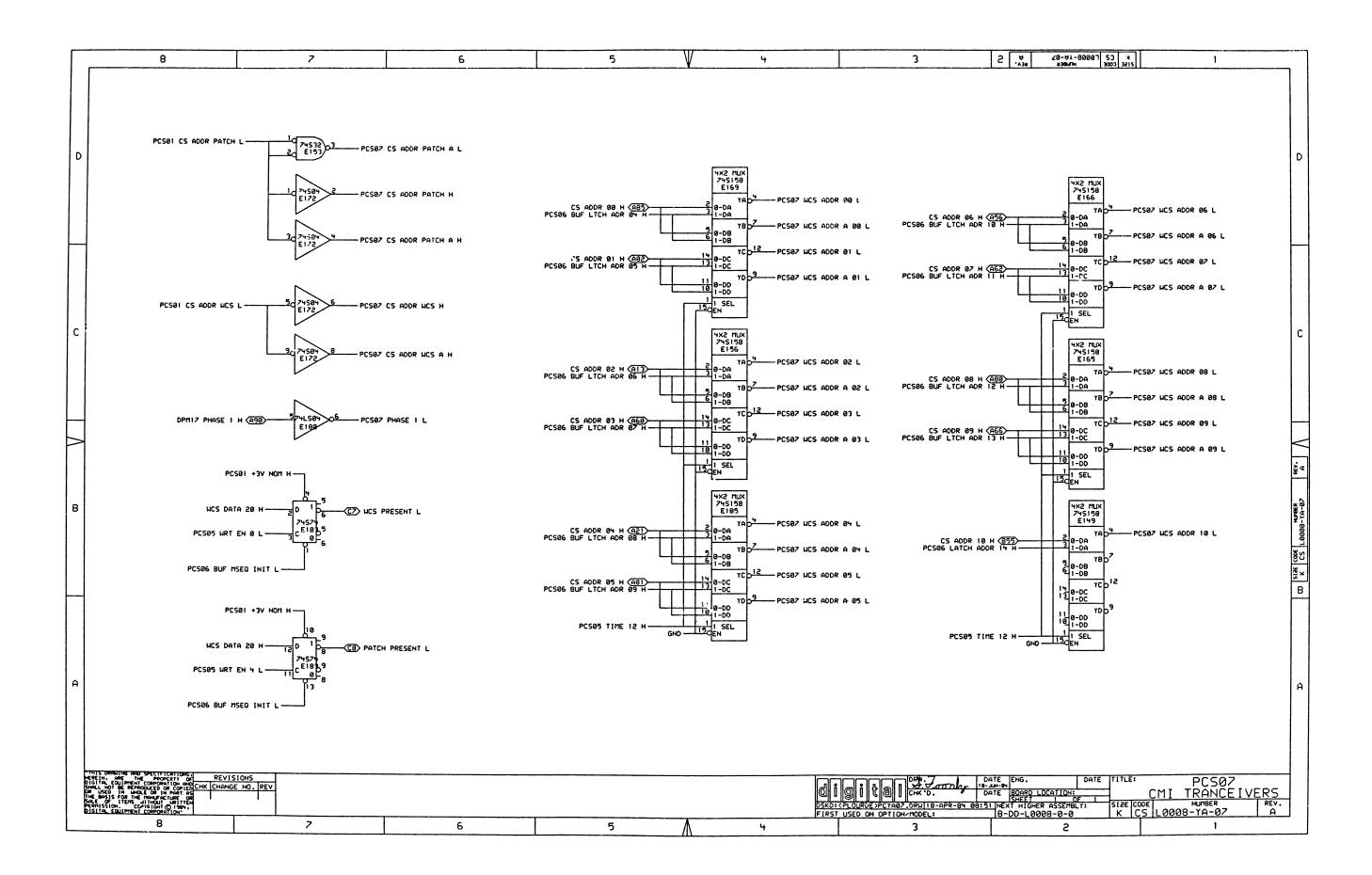


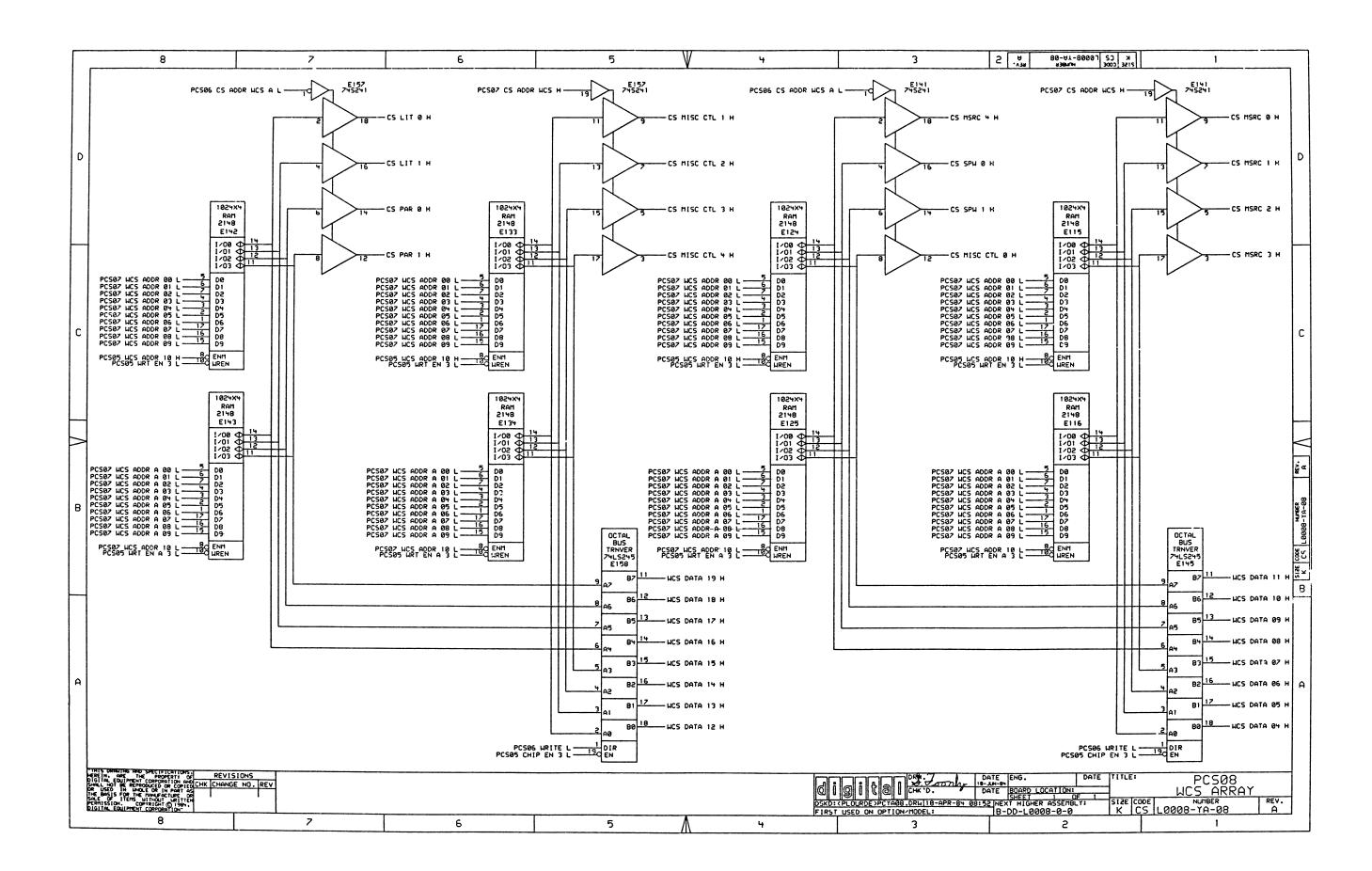


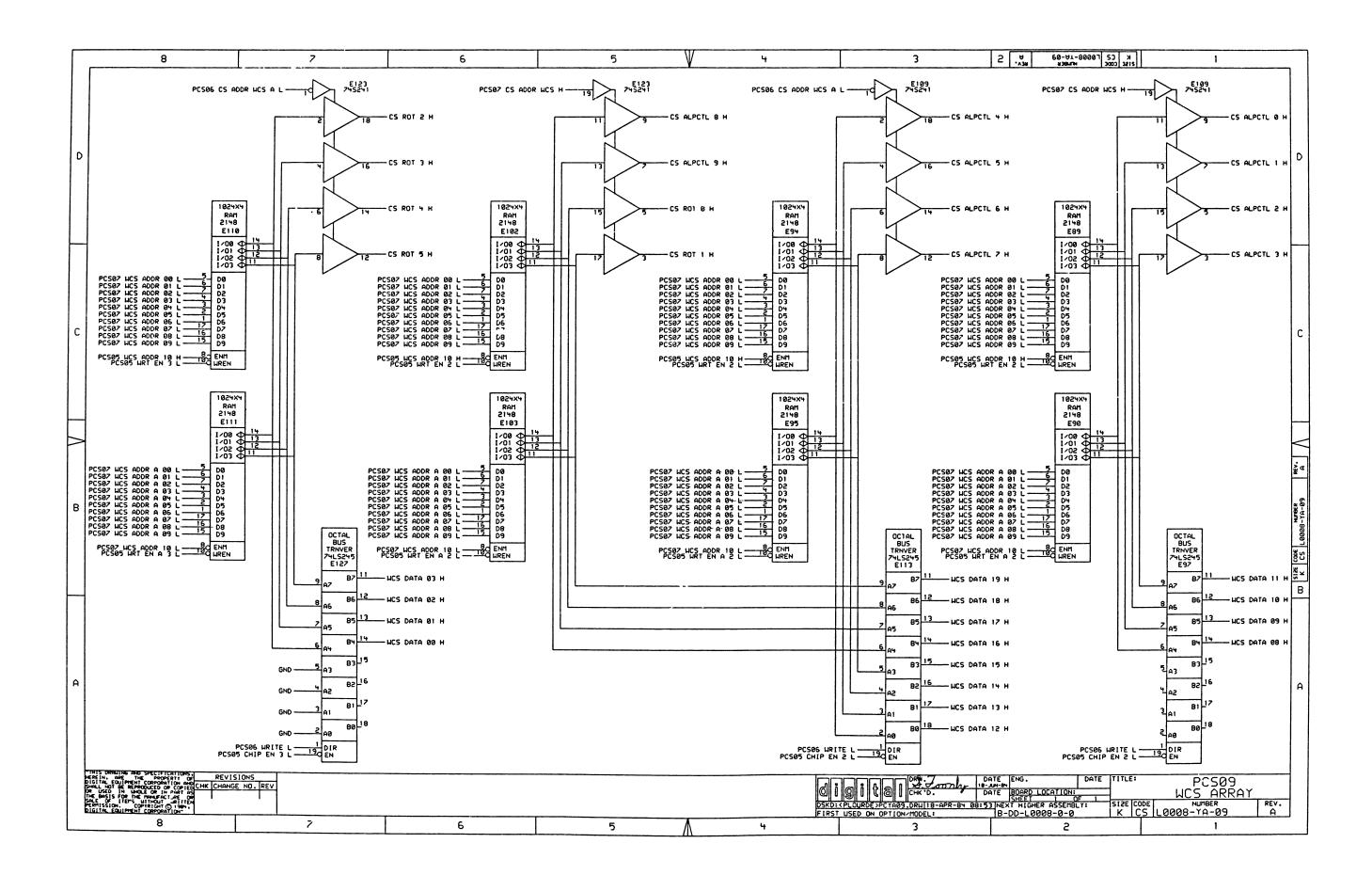


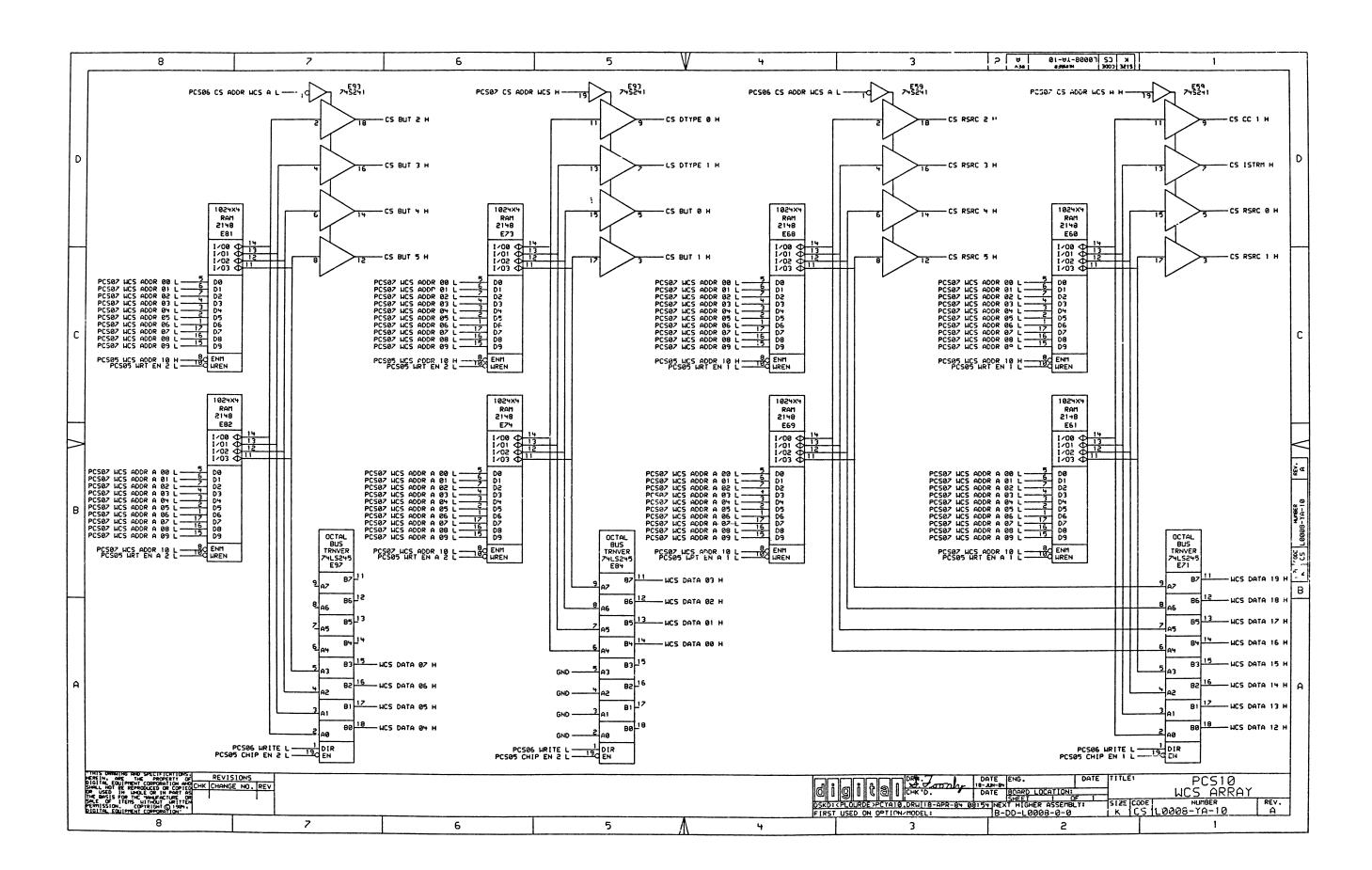


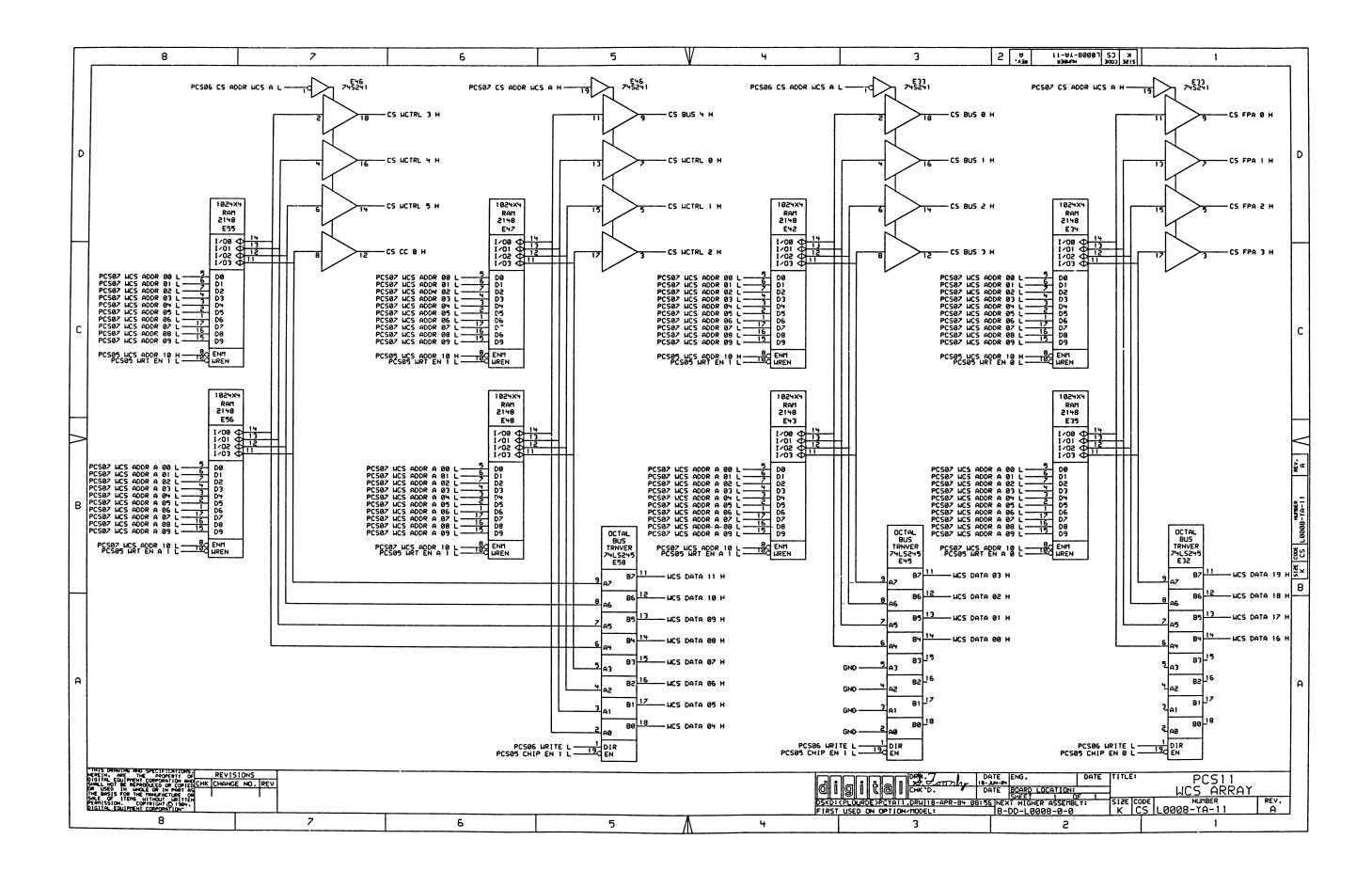


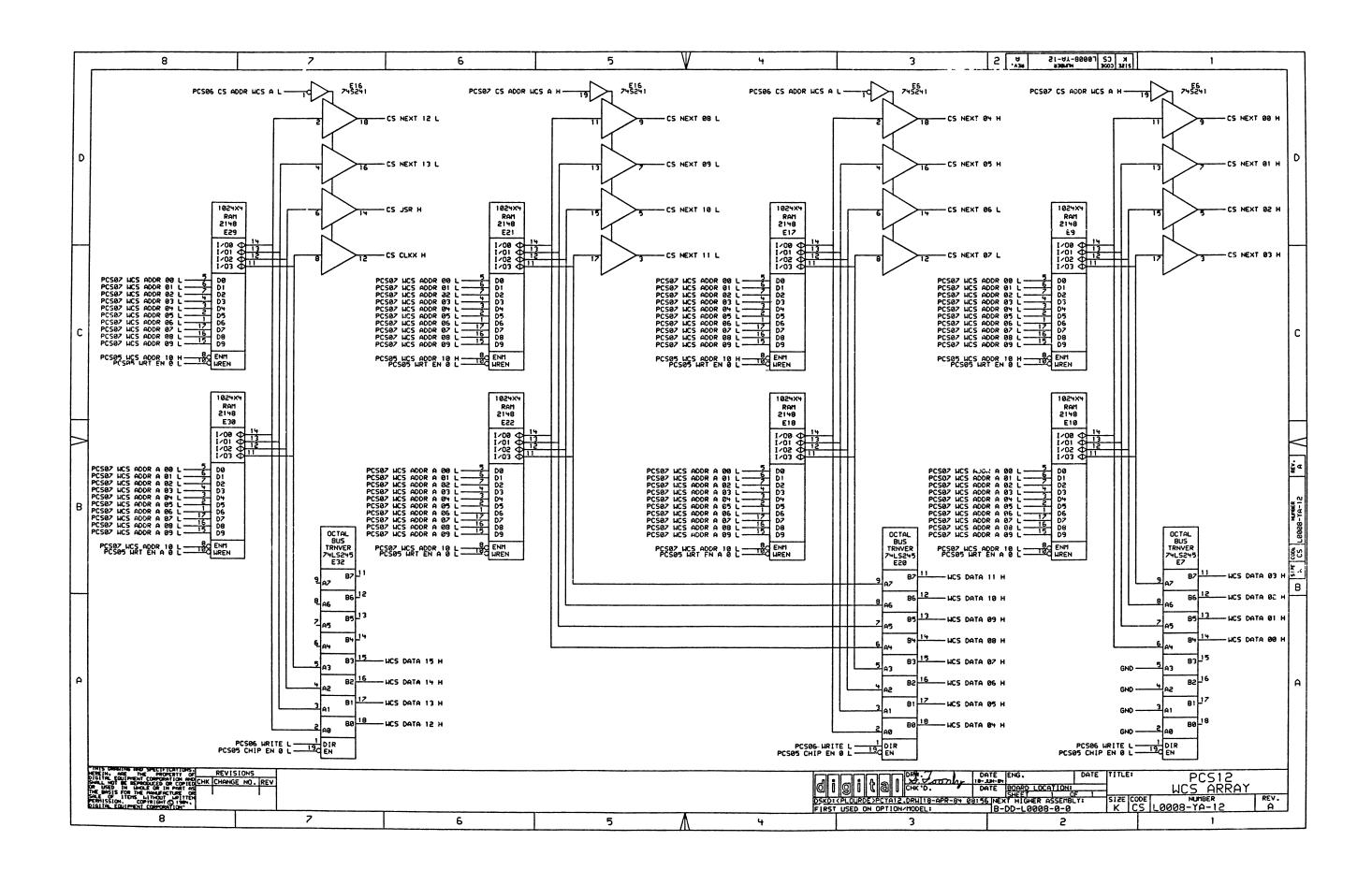


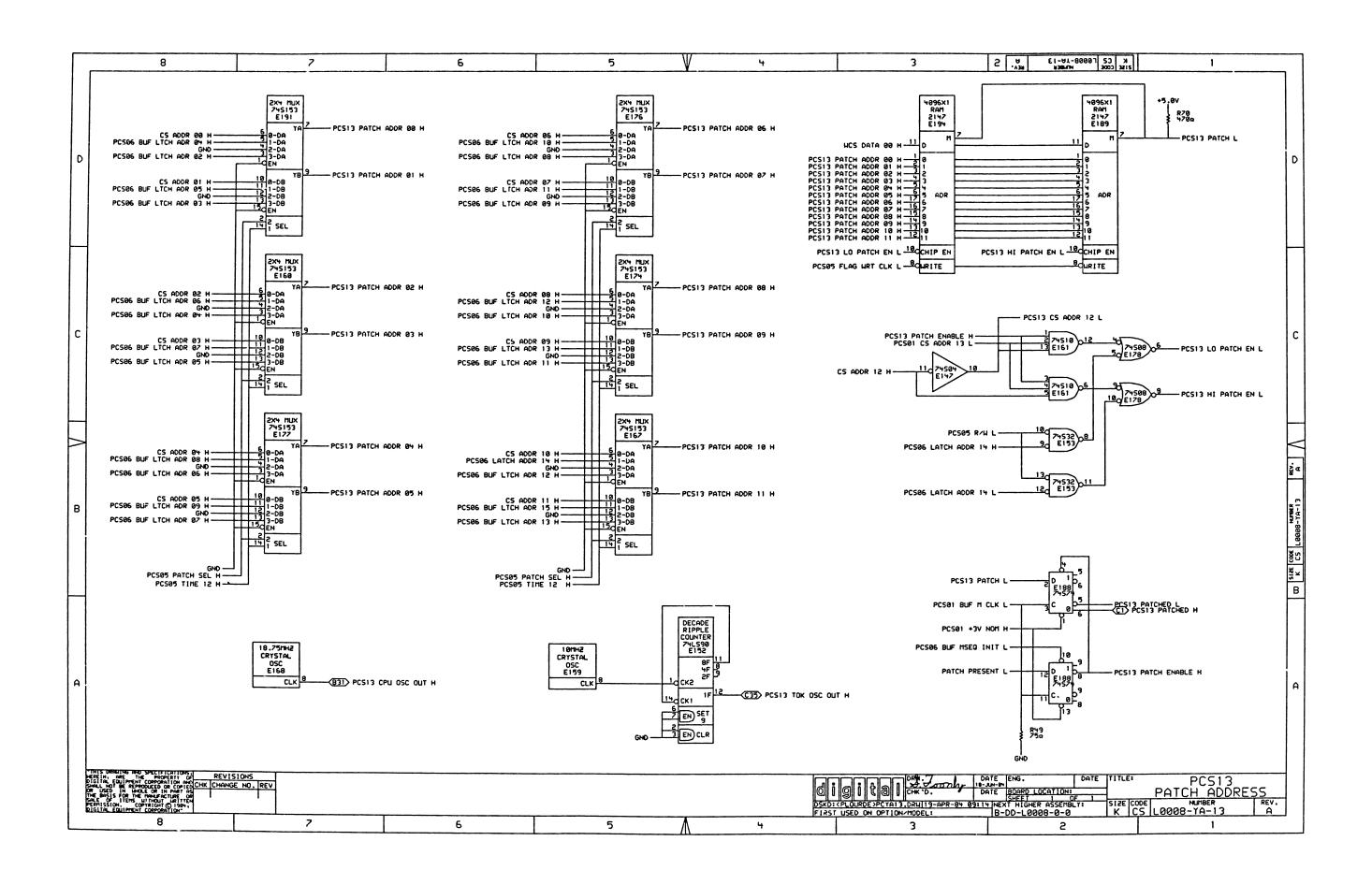


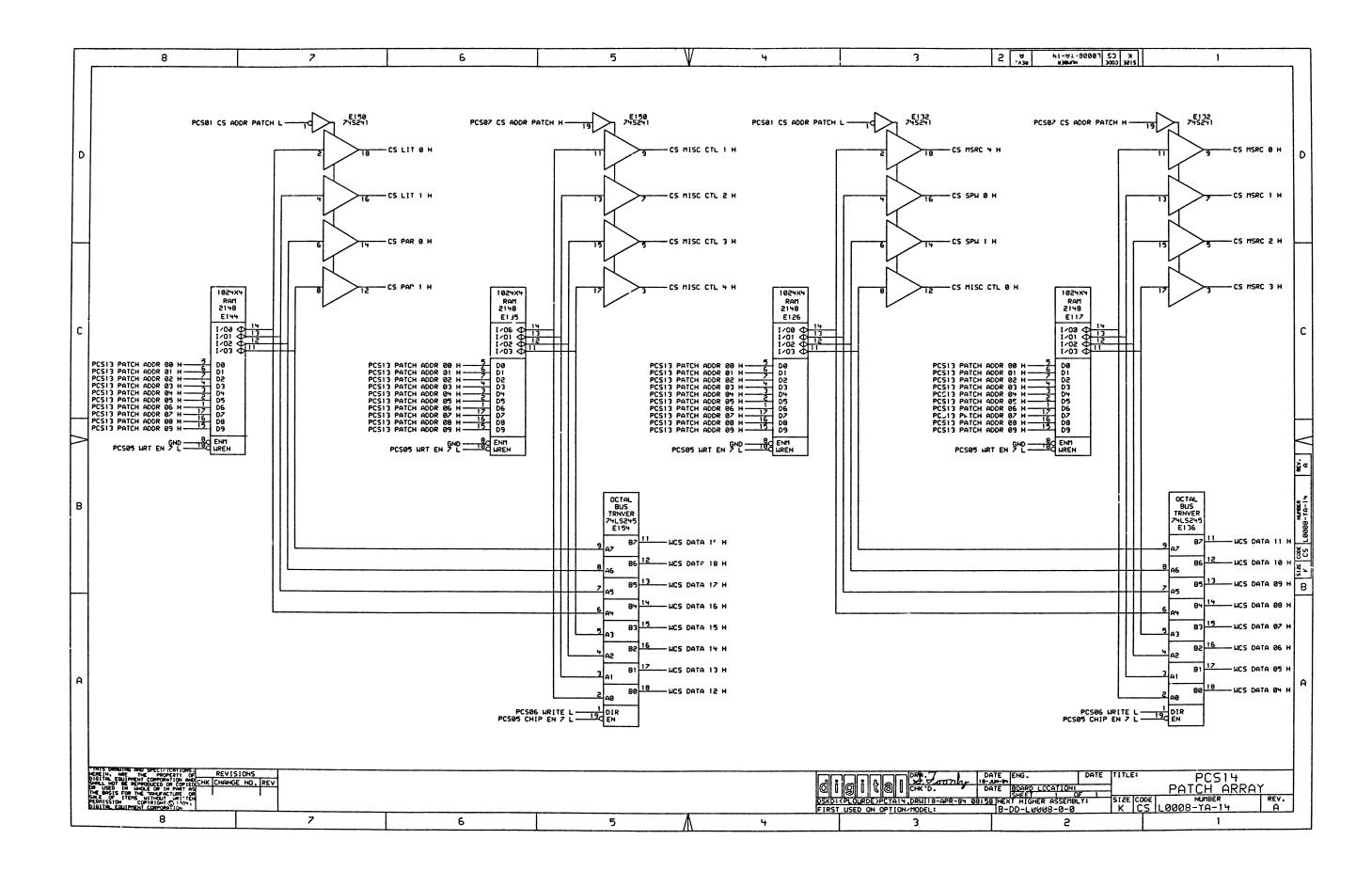


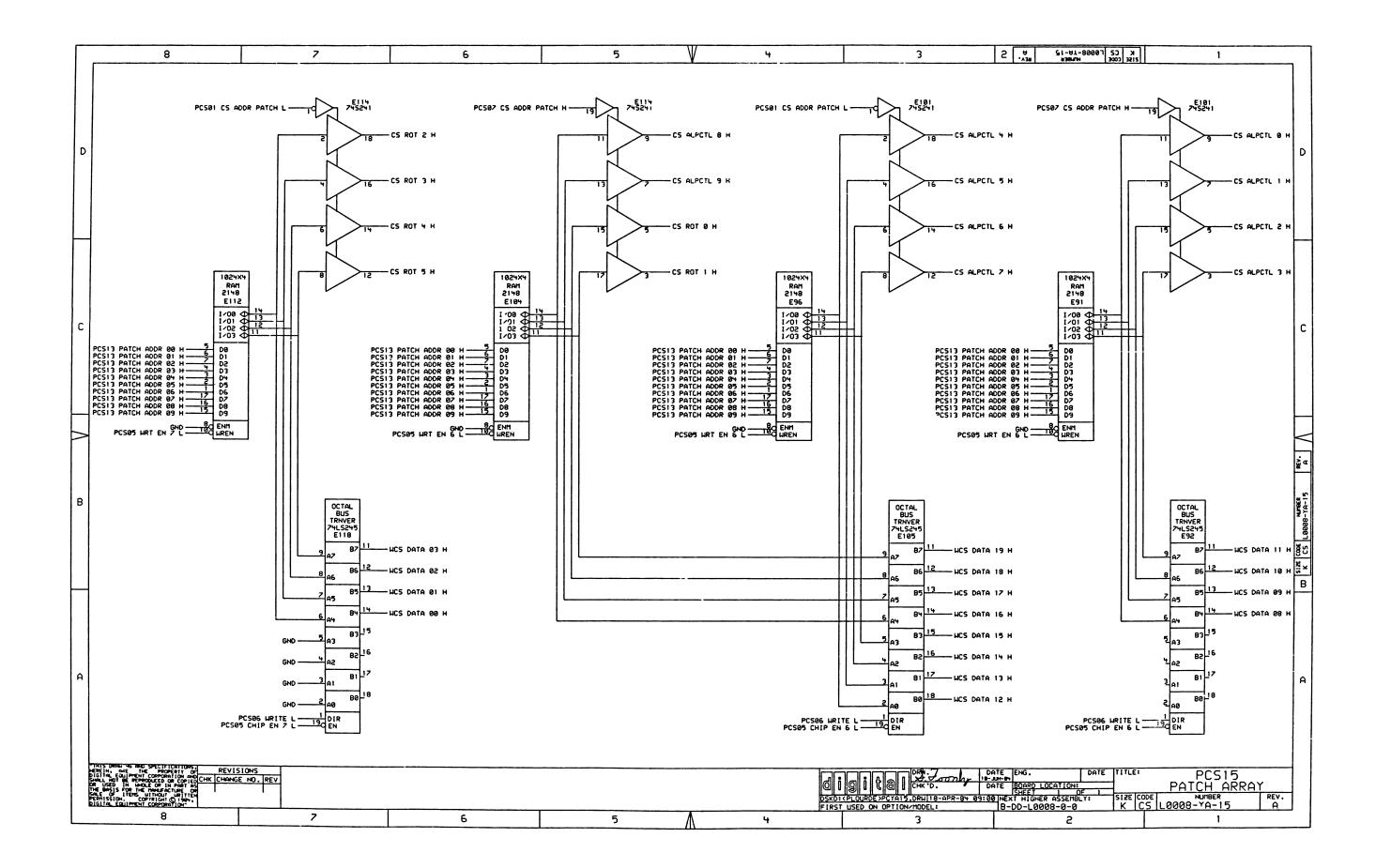


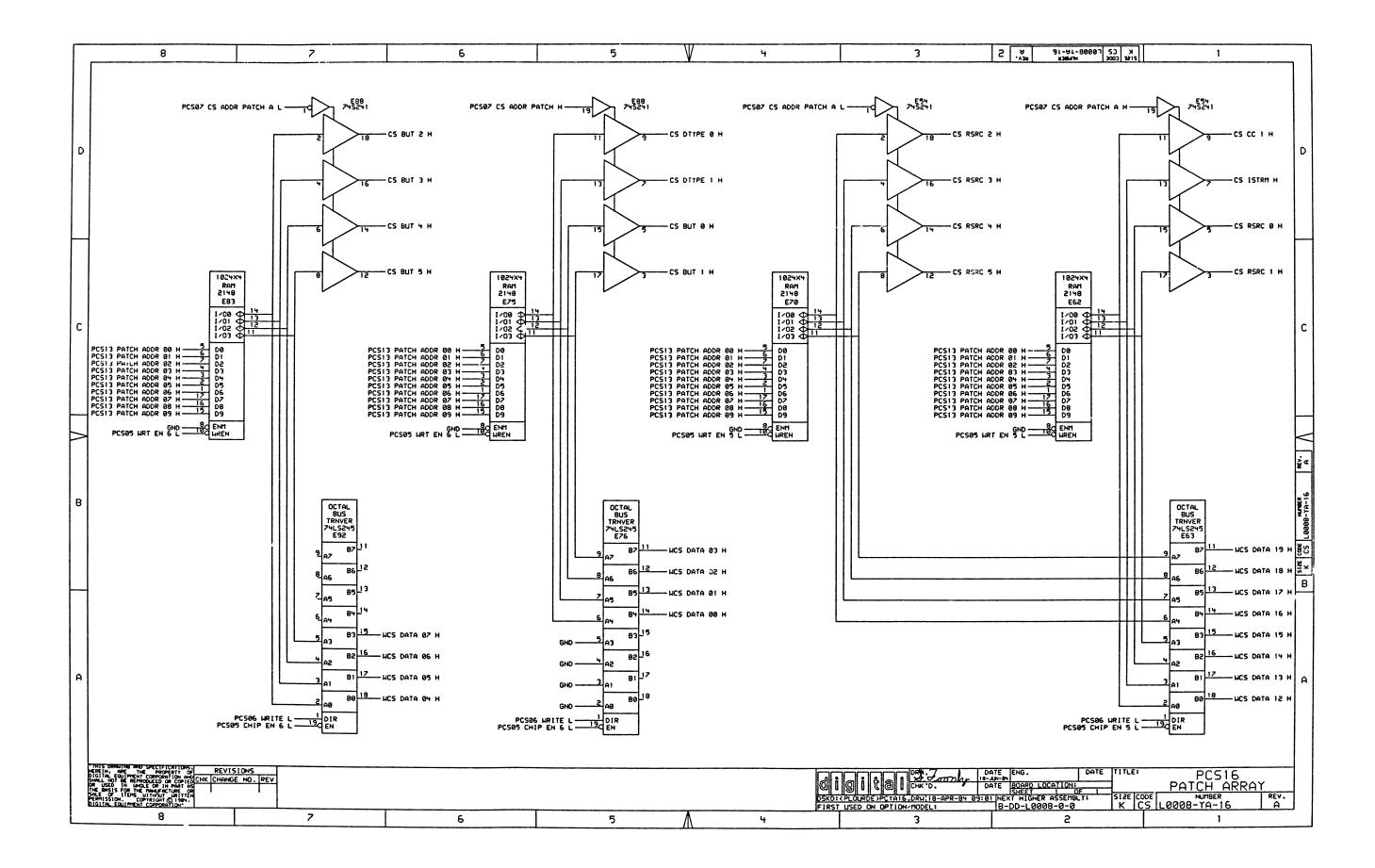


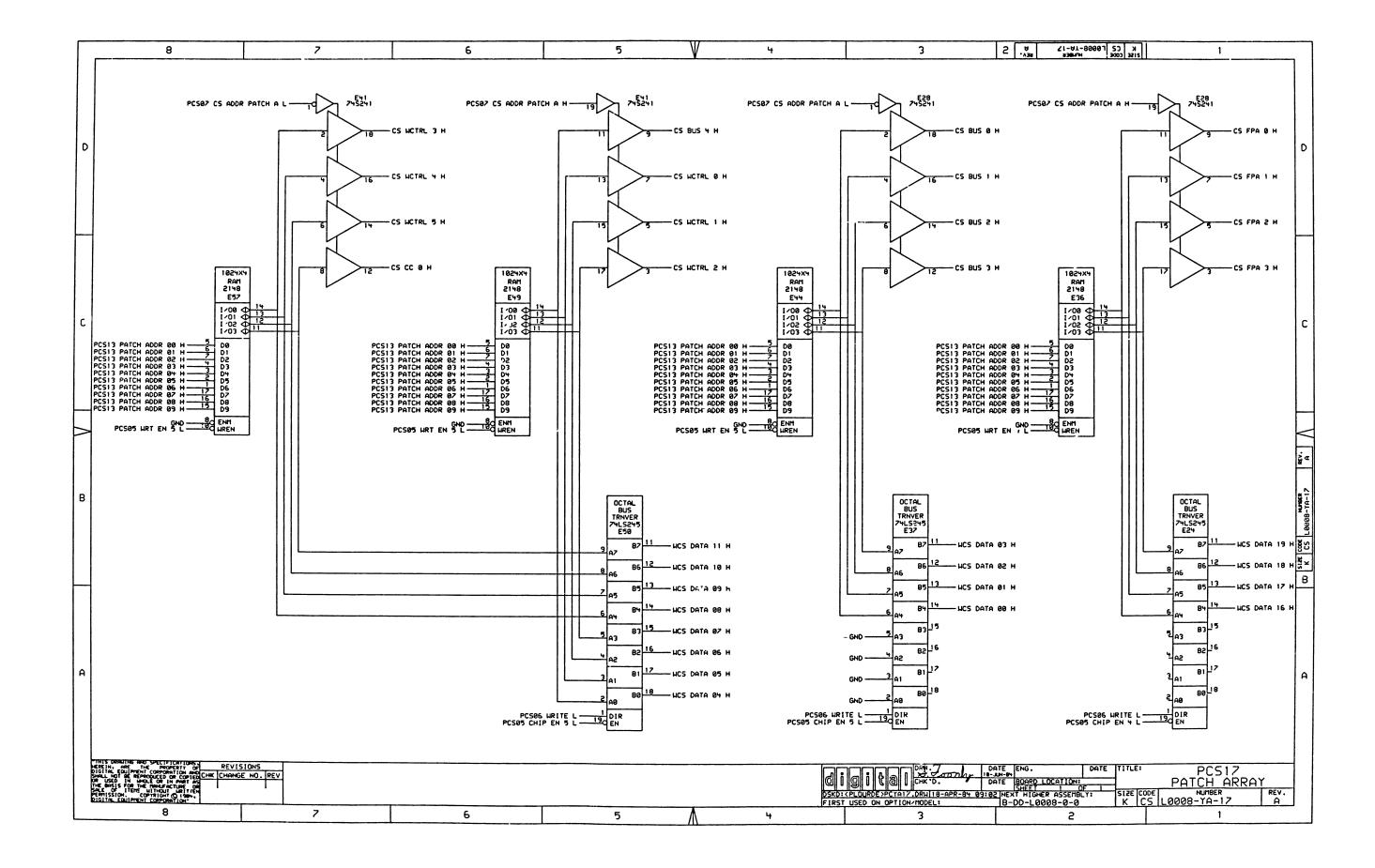


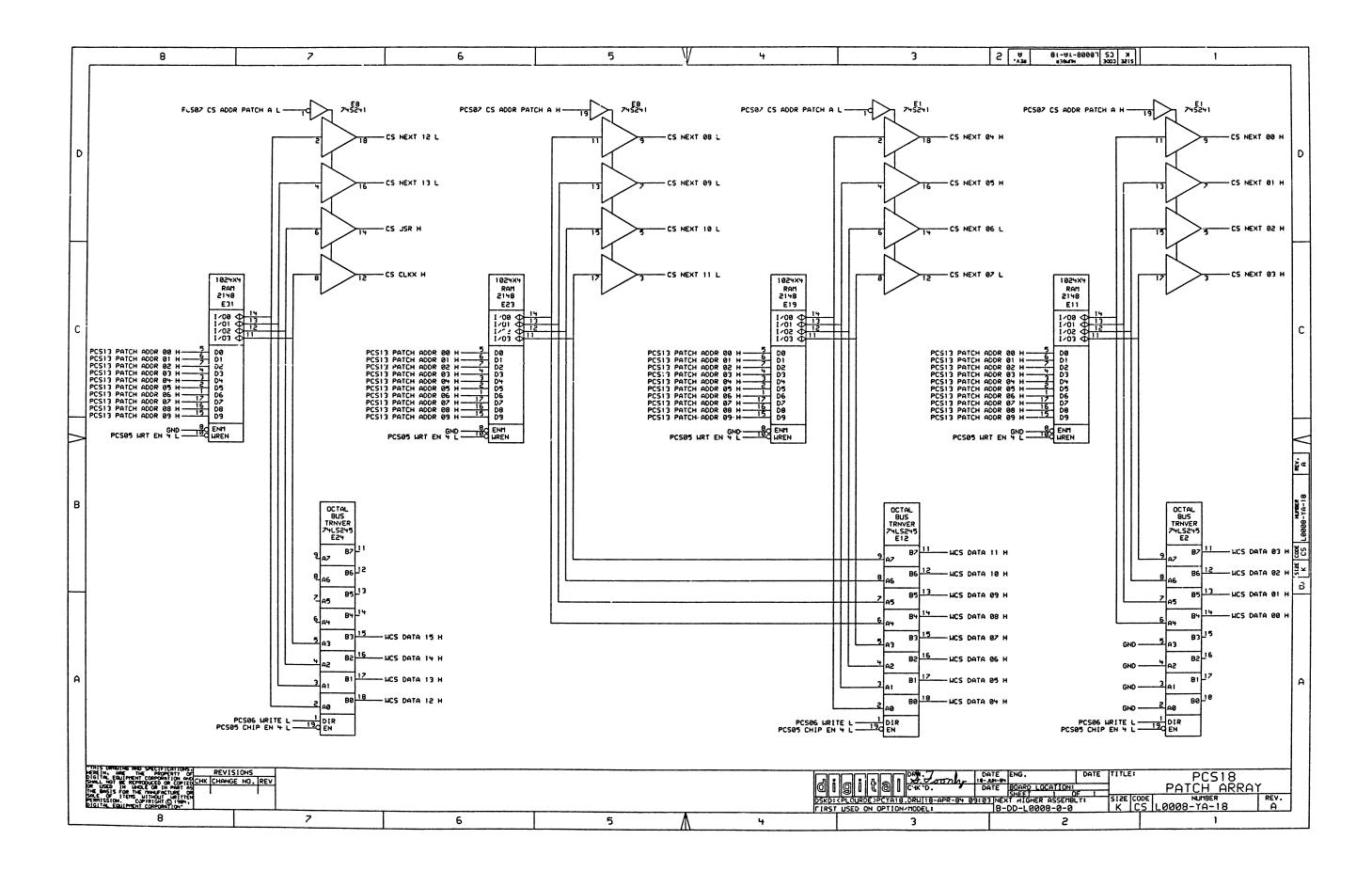


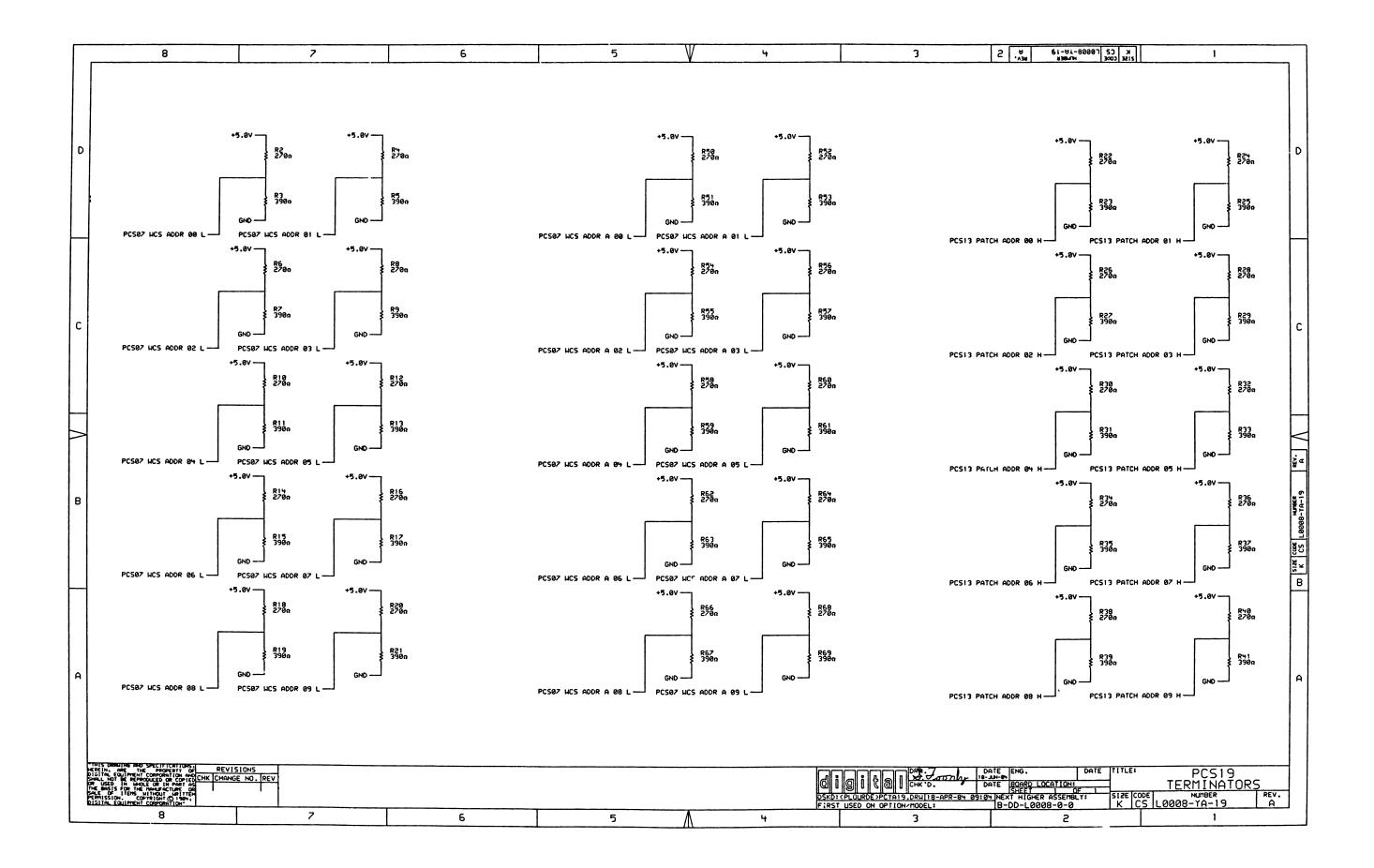


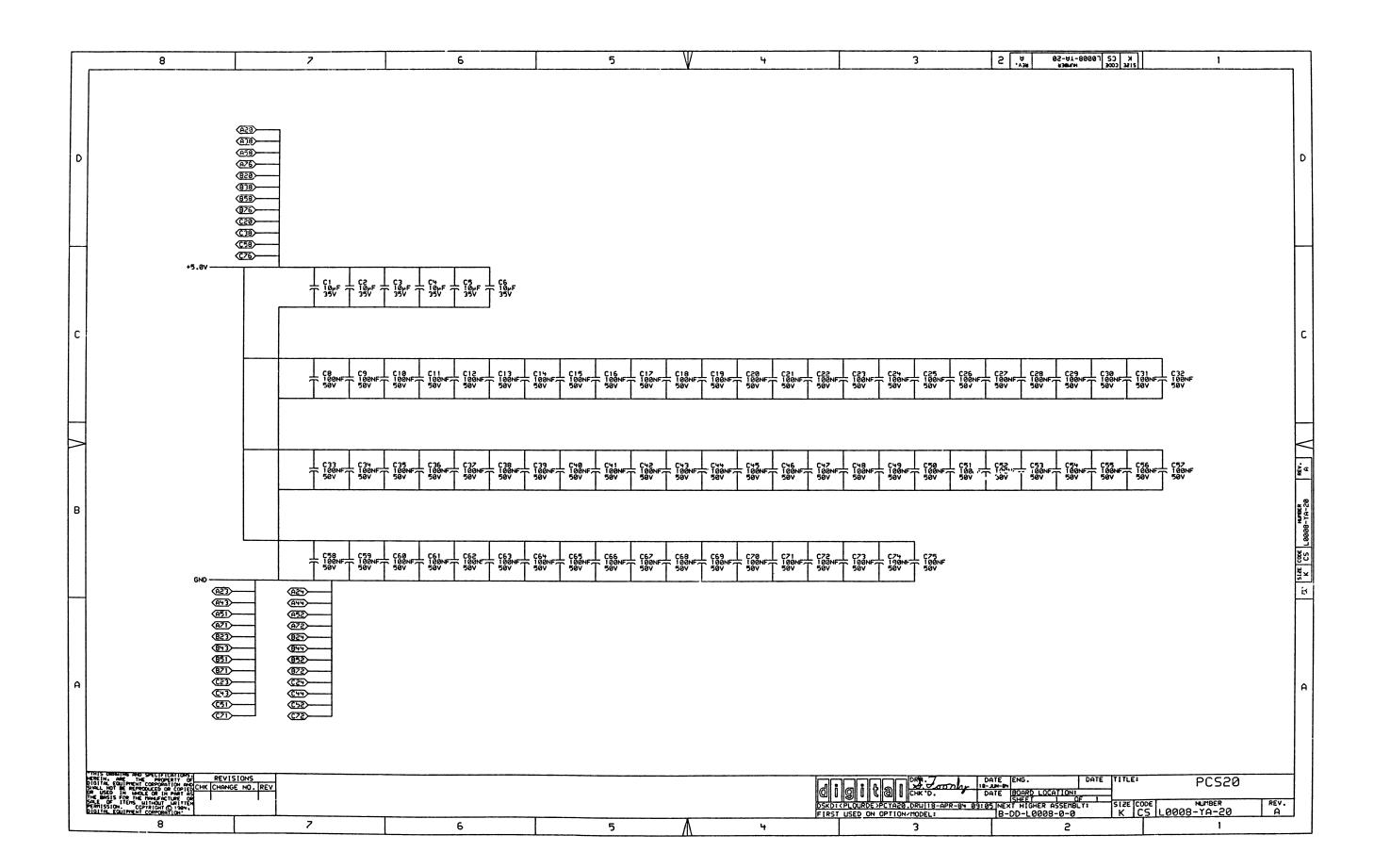










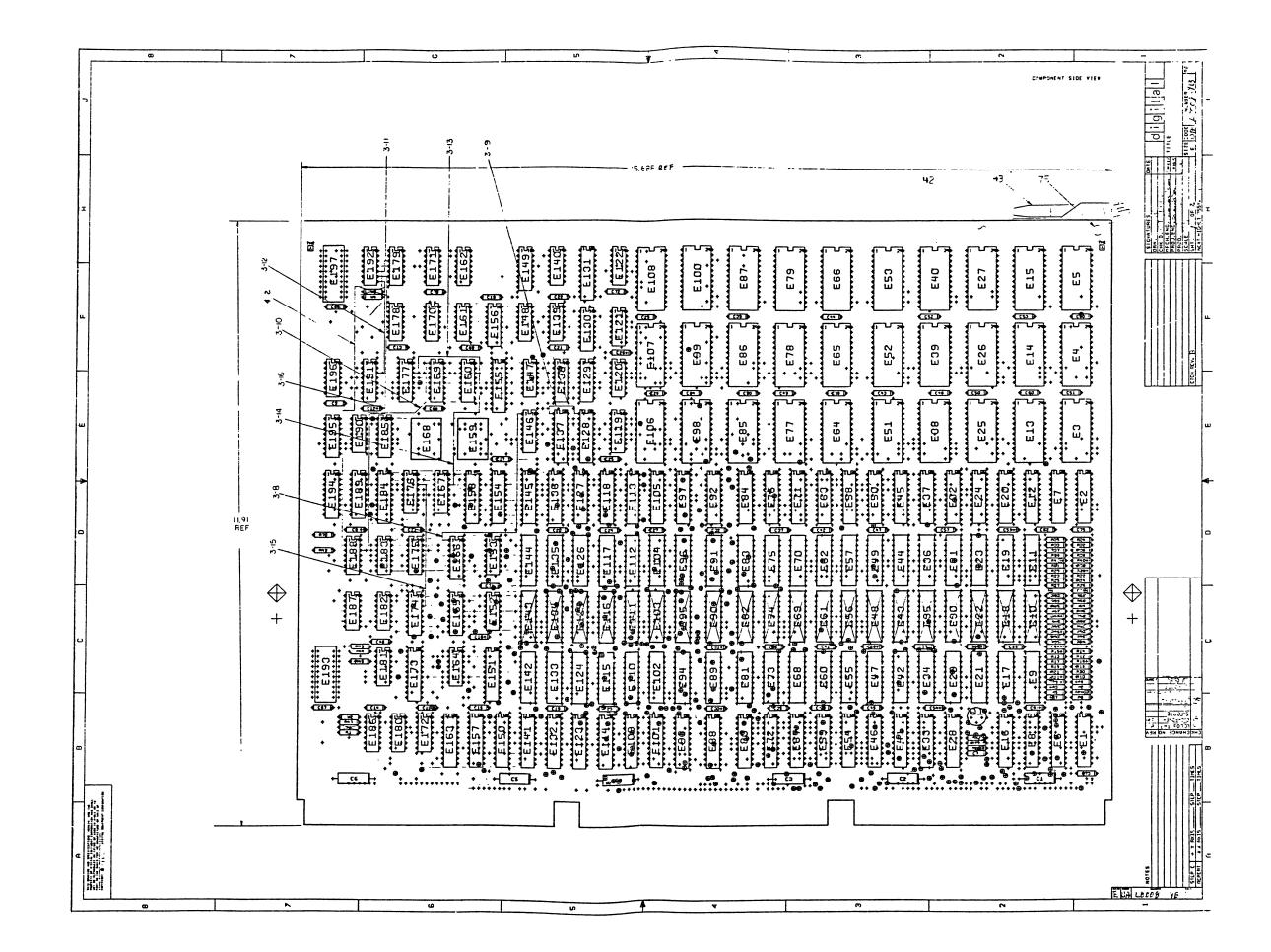


REV. NUMBER CODE 3ZIS DRAWING NO. OF PART NO. DESCRIPTION **REVISIONS** L0008-YB PARTS REVISION A 1 A 2 B 1 B 2 C 1 C 2 D 2 E-MD-5015549-0-0 7 DRILL AND ETCH DRAWING ABBBBBB 5015549-0 ETCH BOARD BIBIBIBIBIB AAABBC E-UA-L0008-0-YB UNIT ASSEMBLY AAAABBC E-EC-5015549-YB 2 ETCH CUT LOOO8 -YB AABBBBC K-PL-L0008-0-DBP 3 PARTS LIST BBBBBB K-PC-L0008-0-DBI P.C. DATABASE ALALALALA K-CS- L0008-YB-01 SCHEMATIC K-CS-L0008-YB-02 AAAAAA SCHEM ^TIC K-CS-L0008-YB-03 AAAAAAA SCHEMATIC K-CS-L0008-YB-04 AAAAAAA SCHEMATIC AAAAAAB K-CS-L0008-YB-05 SCHEMATIC K-CS-L0008-YB-06 AAAAAAA SCHEMATIC K-CS-L0008-YB-07 SCHEMATIC AAAAAAA K-CS-L0008-YB-08 ALALALALA SCHEMATIC AAAAAAA K-CS-L0008-YB-09 SCHEMATIC K-CS-L0008-YB-10 SCHEMATIC Alalalalala K-CS-L0008-YB-11 SCHEMATIC K-CS - L0008-YB - 12 SCHEMATIC A A A A B B B B K-CS - L0008-YB-13 SCHEMATIC K-CS-L0008-YB-14 SCHEMATIC K-CS-L0008-YB-15 ΑΑΑΑΑΑΑ SCHEMATIC K-CS-L0008-YB-16 1 SCHEMATIC ALALALALA K-CS-L0008-YB-17 1 SCHEMATIC AAAAAAA K-CS-L0008-YB-18 | 1 SCHEMATIC AAAAAAA K-CS-L0008-YB-19 1 SCHEMATIC **NOTES:** TW002
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TW004 REVISIONS CHG NO. 7-83 1-83 1-83 1-83 7-84 DATE 5-9-04 TITLE DRN. DI FOURNIER USED ON OPTION/MODEL 'THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PRO-PCS PERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL CHK'D NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF NUMBER REV. ENG. SIZE CODE ITEMS WITHOUT WRITTEN PERMISSION. B DD LOOO8 - YB Ε PROD. COPYRIGHTO 1984 DIGITAL EQUIPMENT CORPORATION SHEET | OF 2

B DD

L0008-YB

B DD FOOO8-AB SIZE CODE DRAWING NO. OF SHTS. PART NO. **DESCRIPTION REVISIONS** K-CS-L0008-YB-20 I A A A A B B C SCHEMATIC K-CS-LOOO8-YB-DBS DATA BASE 7-83 TWOOI B 11-83 TWOO2 C 11-83 TWOO2 C 11-83 TWOO3 D 11-83 TWOO3 D 7-84 TWOO4 E **NOTES:** DRN. D FOURNIER TITLE USED ON OPTION/MODEL 5-8-84 "THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PRO-PCS PERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL CHK'D NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF SIZE CODE NUMBER B DD LOOO8-YB REV. ENG. ITEMS WITHOUT WRITTEN PERMISSION. Ε COPYRIGHTO 1984 DIGITAL EQUIPMENT CORPORATION PROD. SHEET 2 OF 2



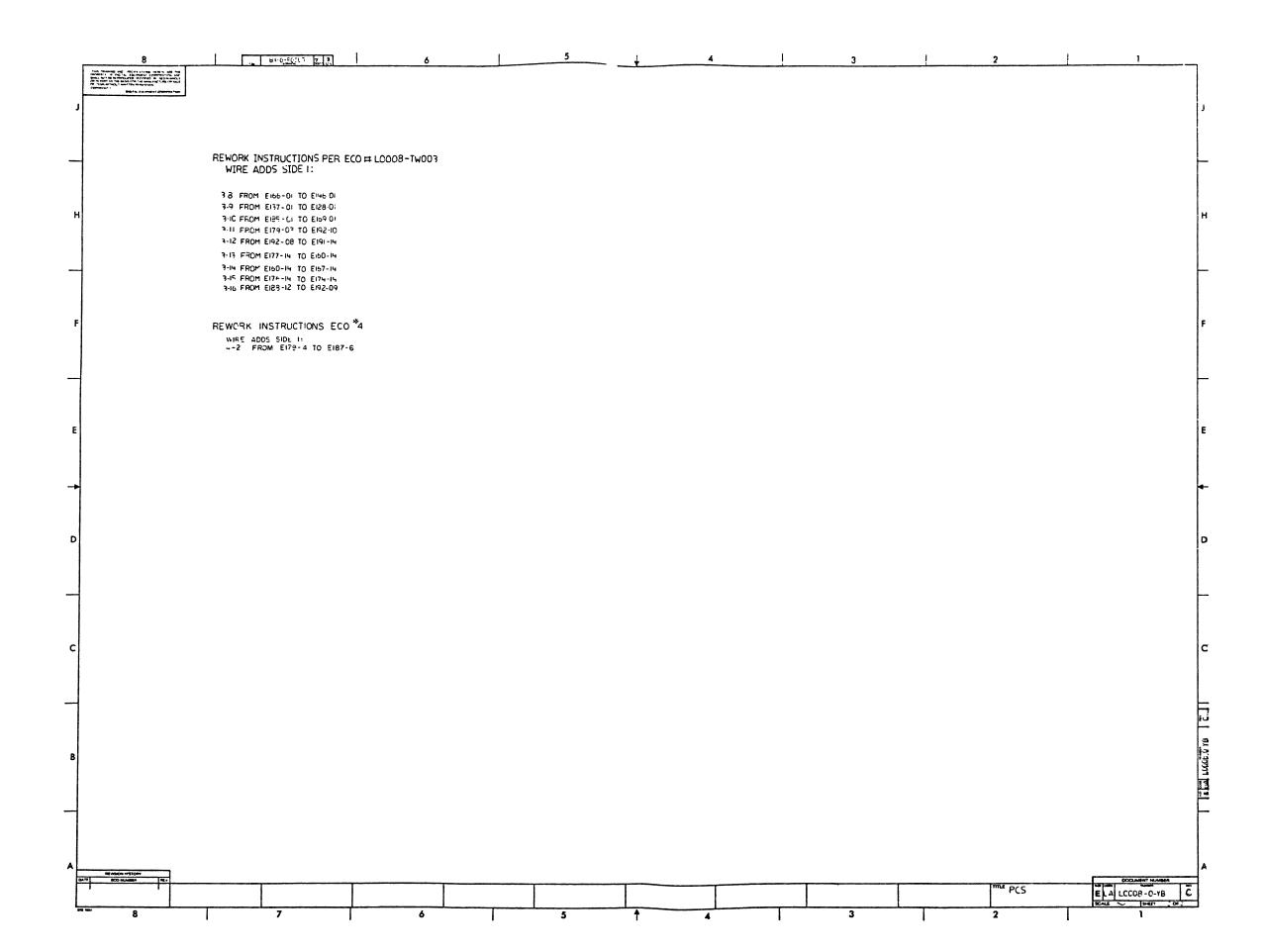


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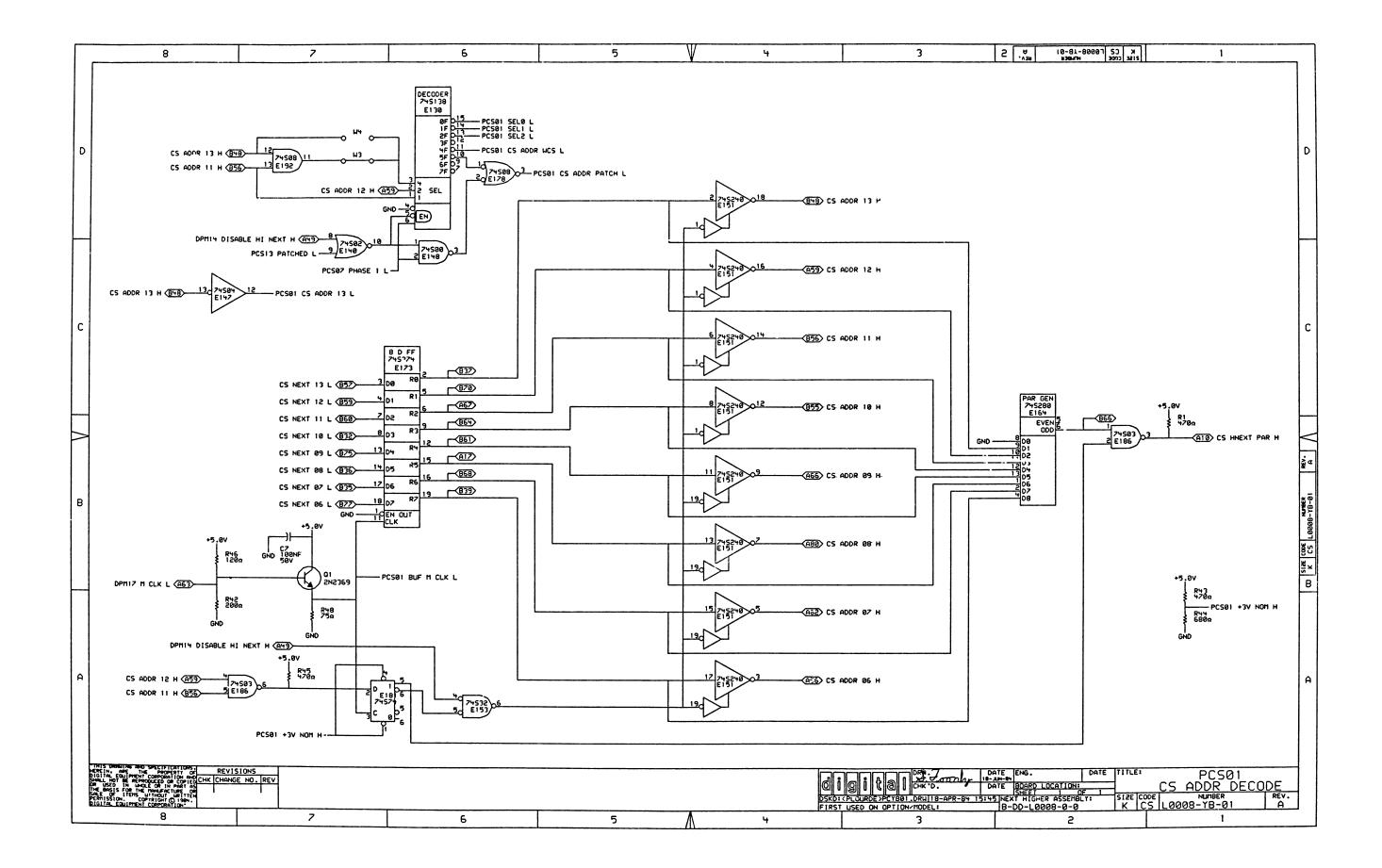
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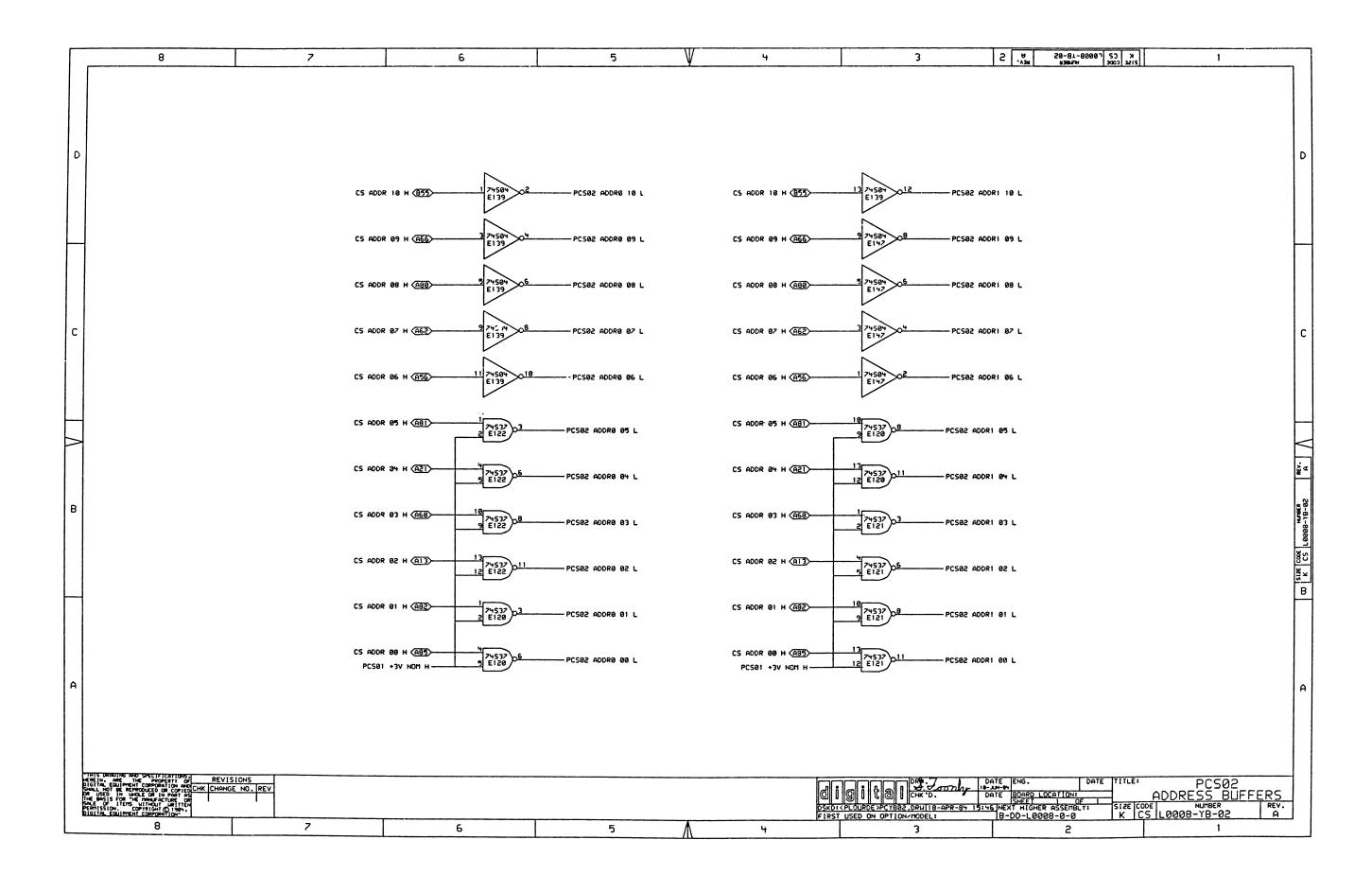
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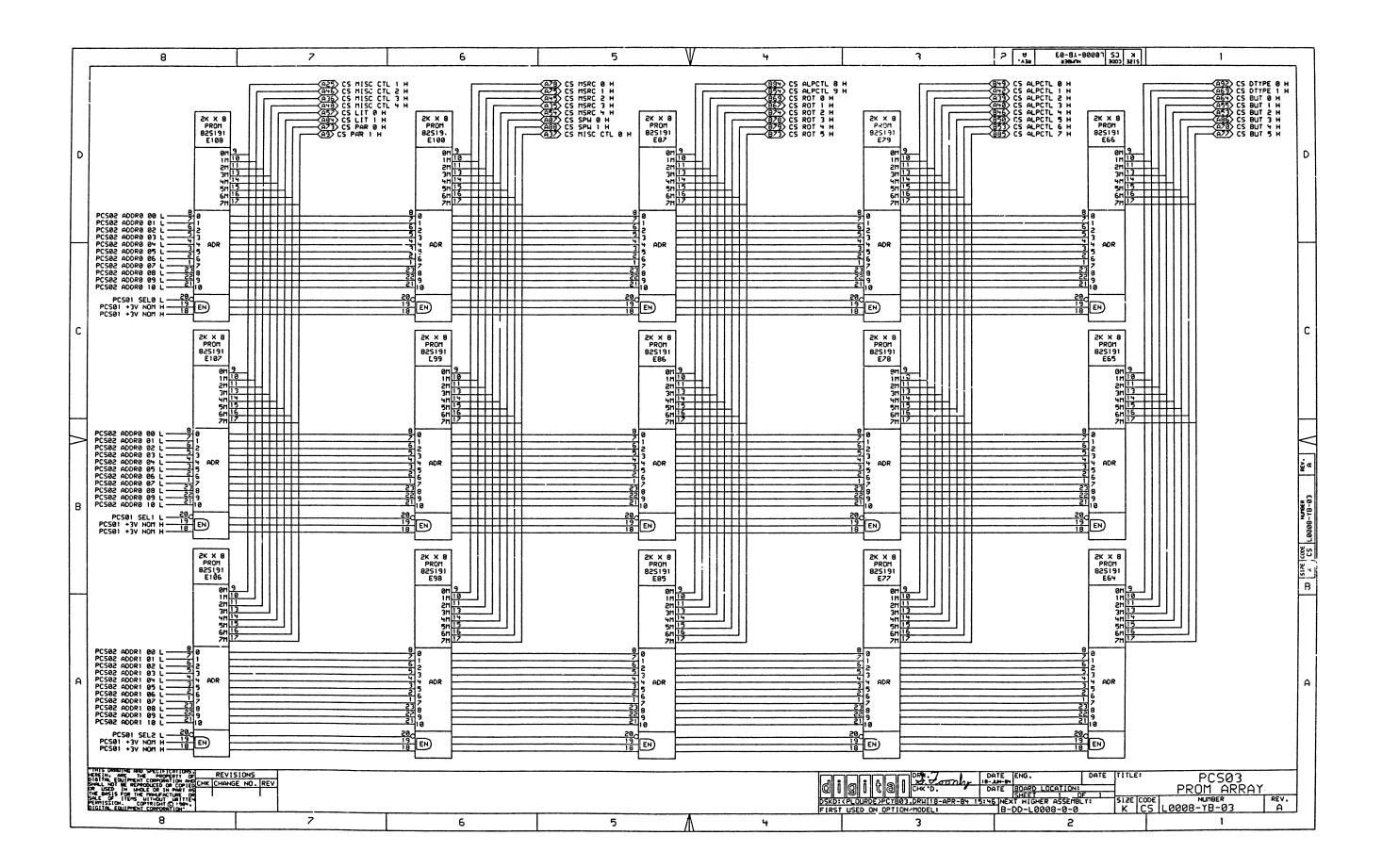
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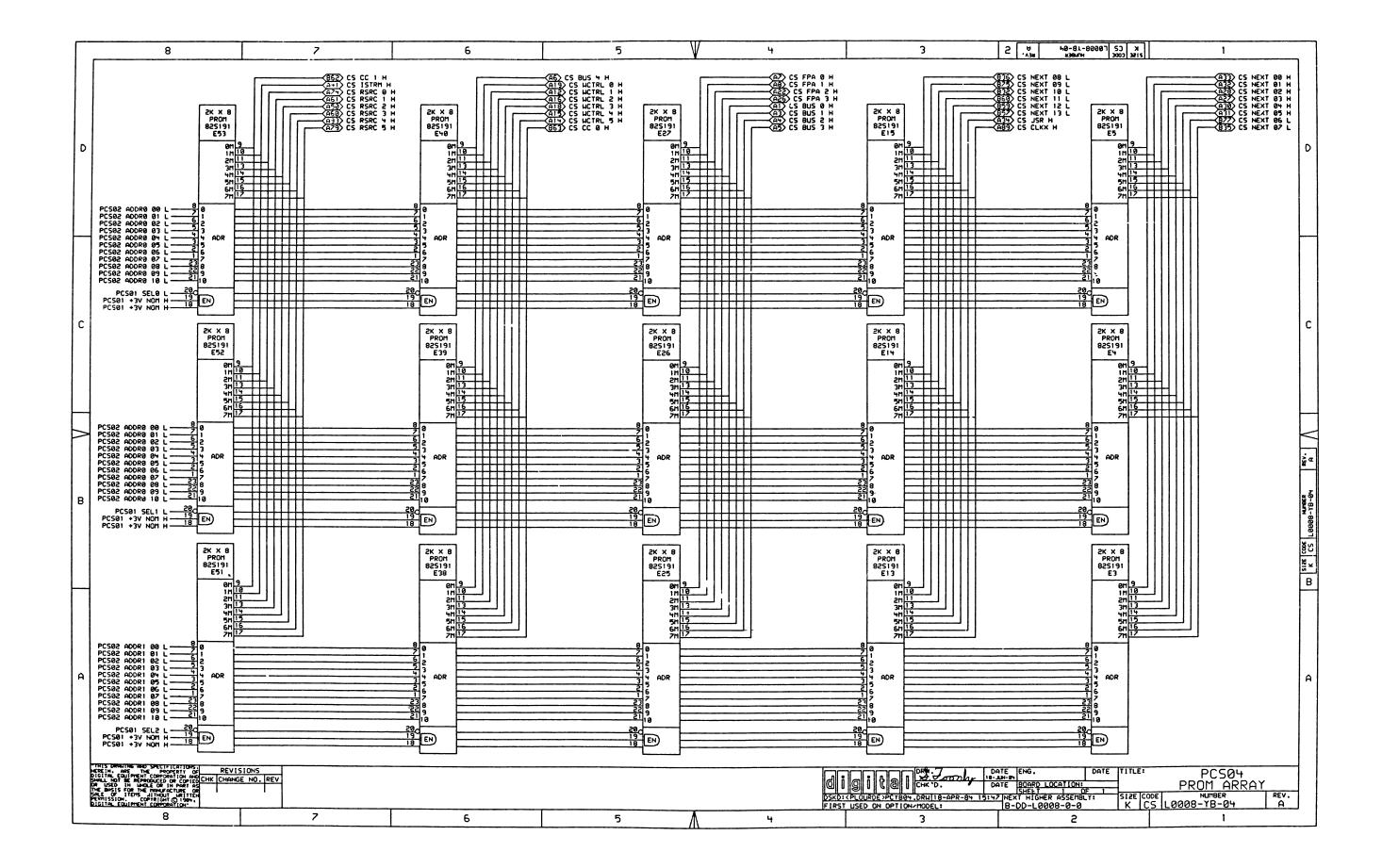
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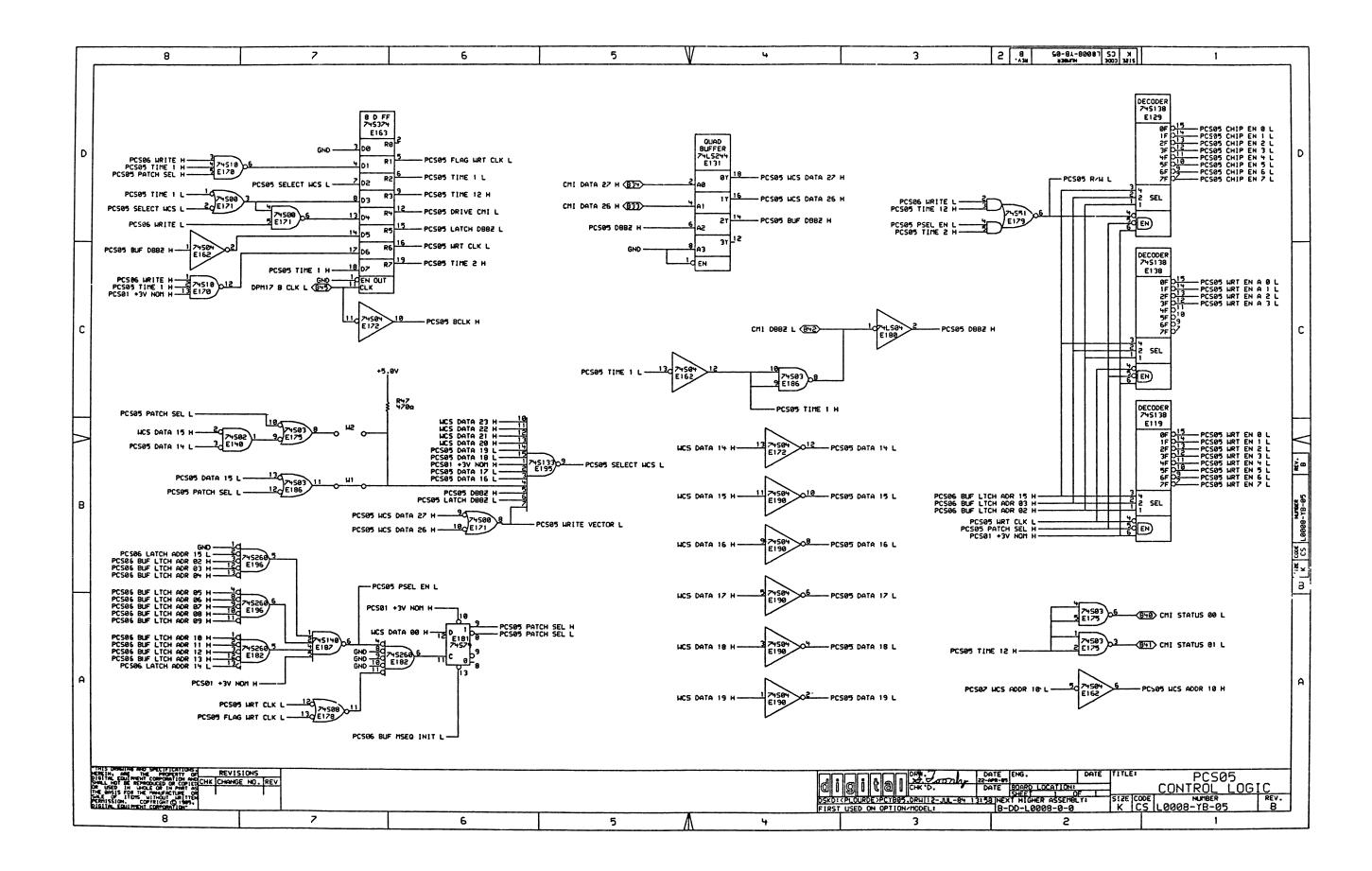
REWORK INSTRUCTIONS ECO=3 ETCH CUTS SIDE I 3-1 AT PTH ABOVE EI74-16 3-2 CUT AT PTH ABOVE EIGS FINI 3-3 AT EIS1-14 3-4 AT E:60-14 ETCH CUTS SIDE 2 3-5 CUT ETCH DIRECTLY BELOW EIGO-I 3-6 BETWEEN EI67-I4 AND PTH GOING TO THE LEFT 3-7 BETWEEN E177-14 AND PTH GOING TO THE LEFT REWORK INSTRUCTIONS ECO 4 ETCH CUT SIDE 1: 4-1 BETWEEN E179-4 AND E179-5 E EC 5CISS49-VB-0 C

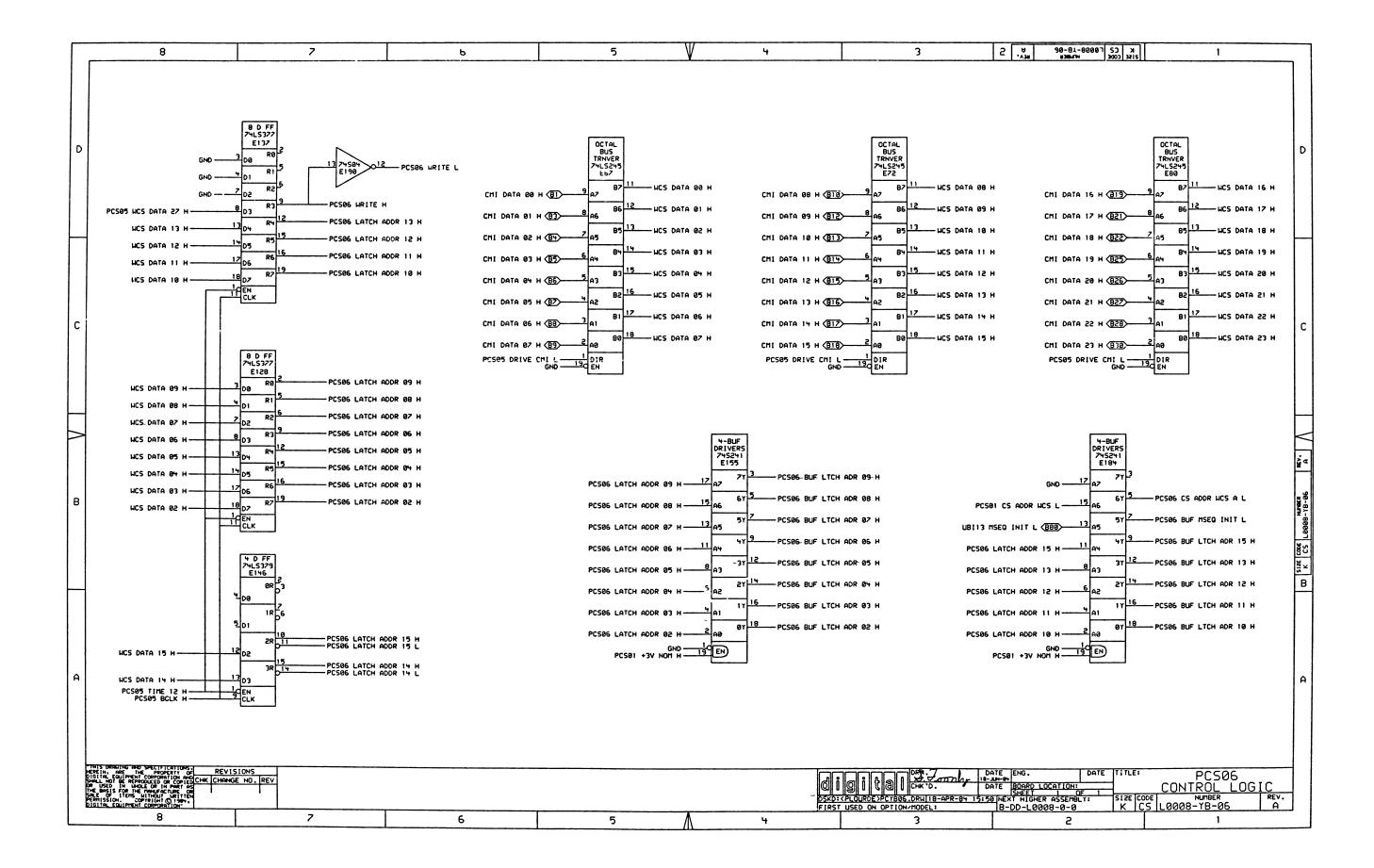


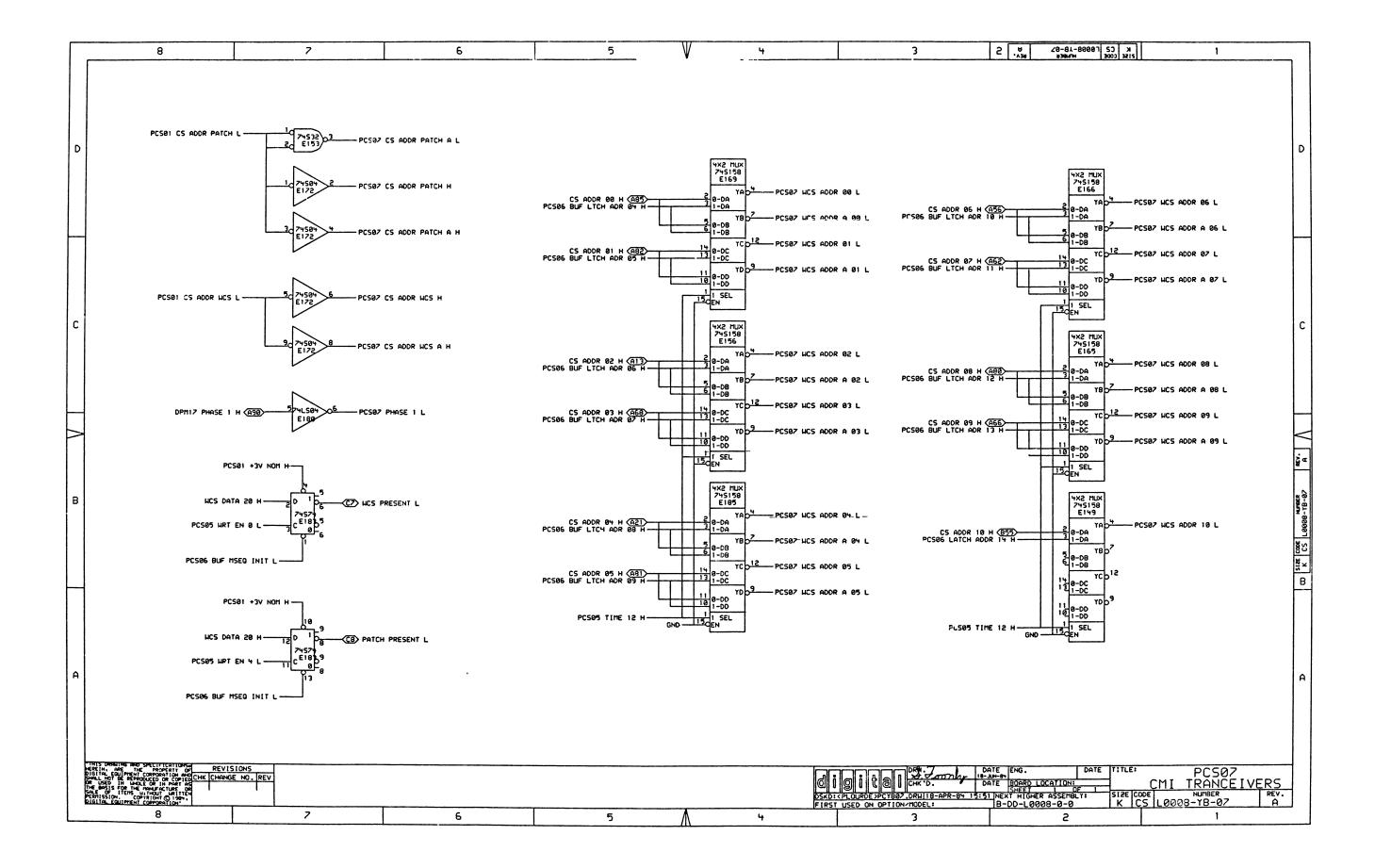


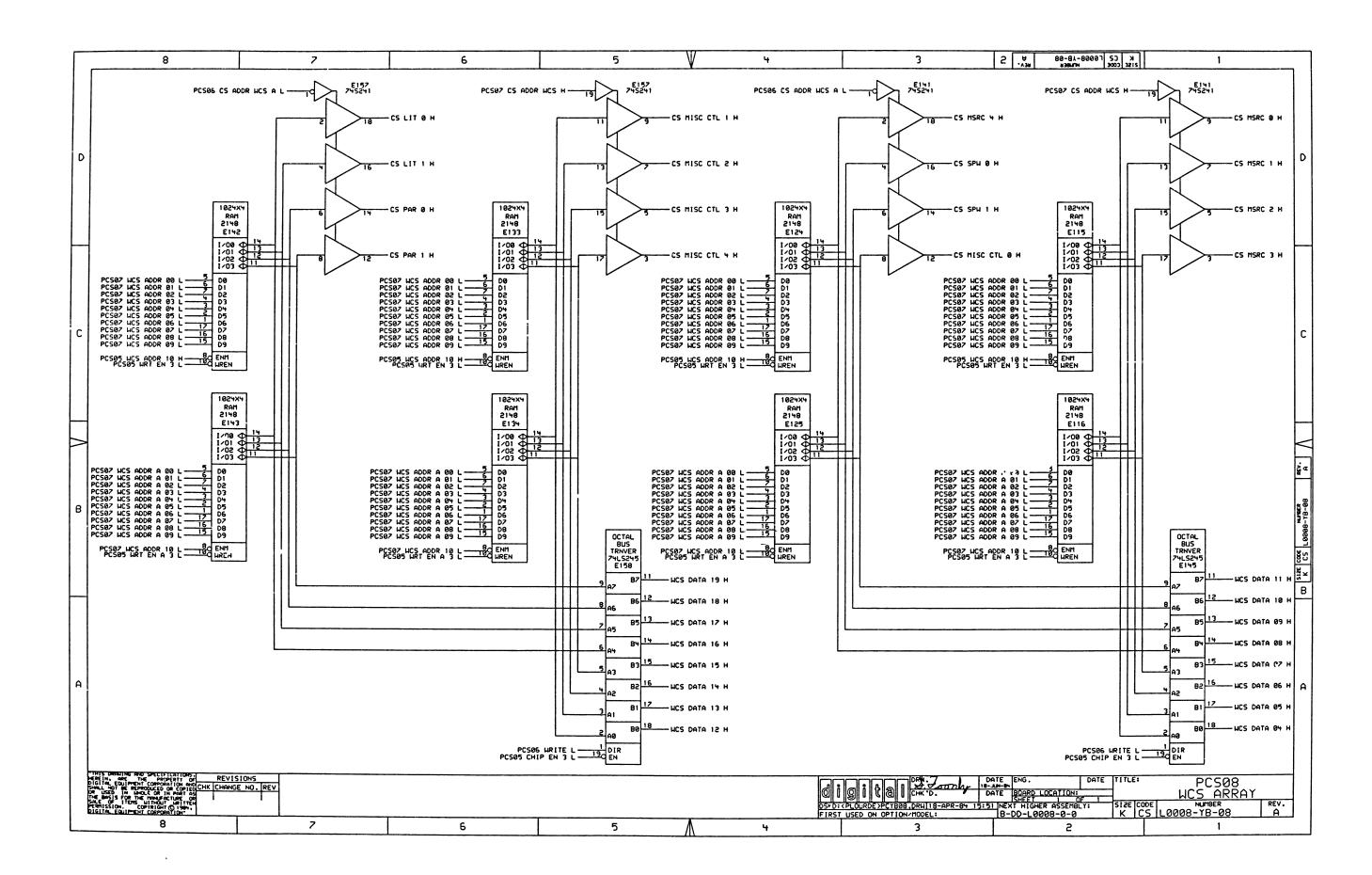


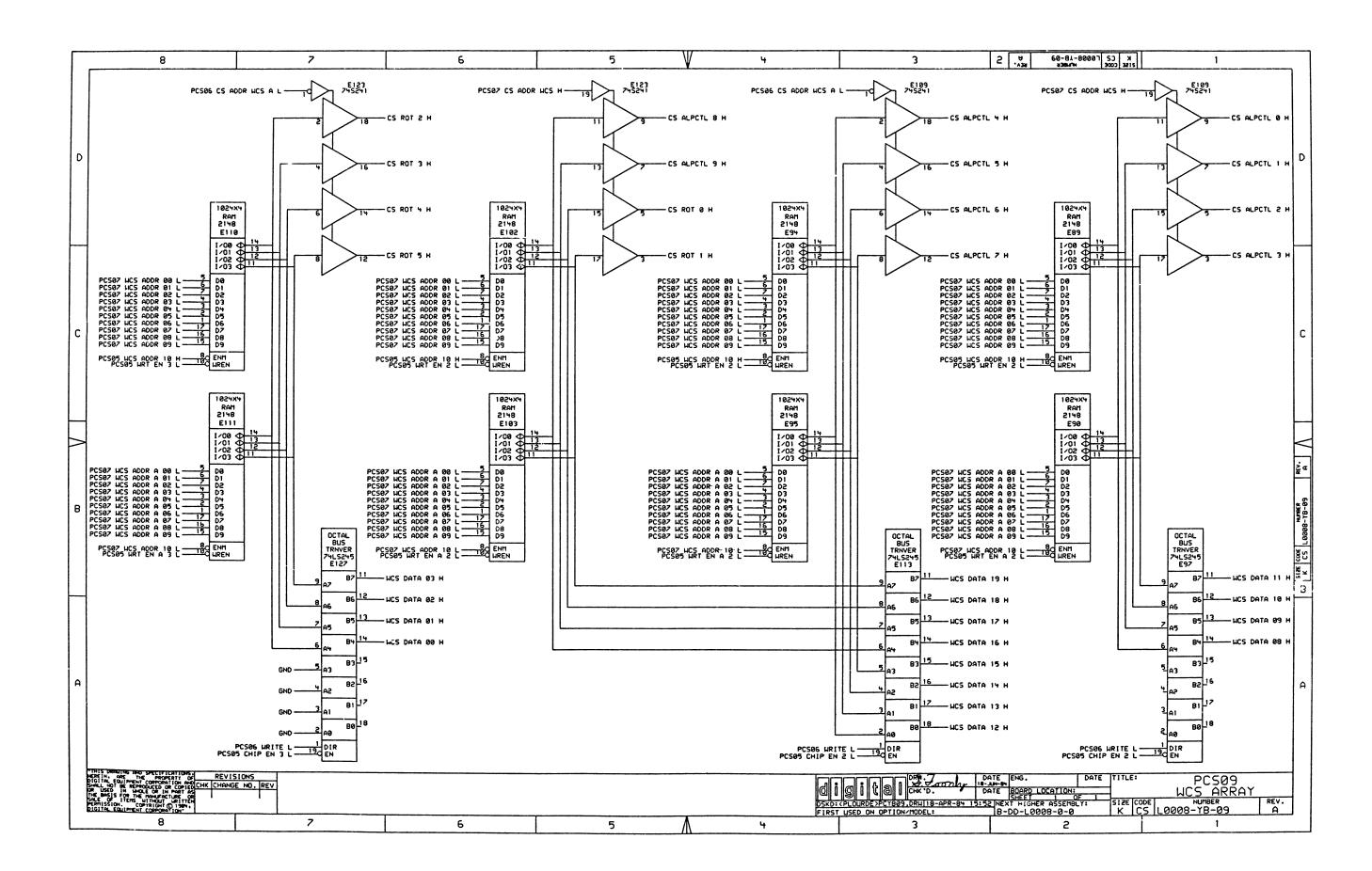


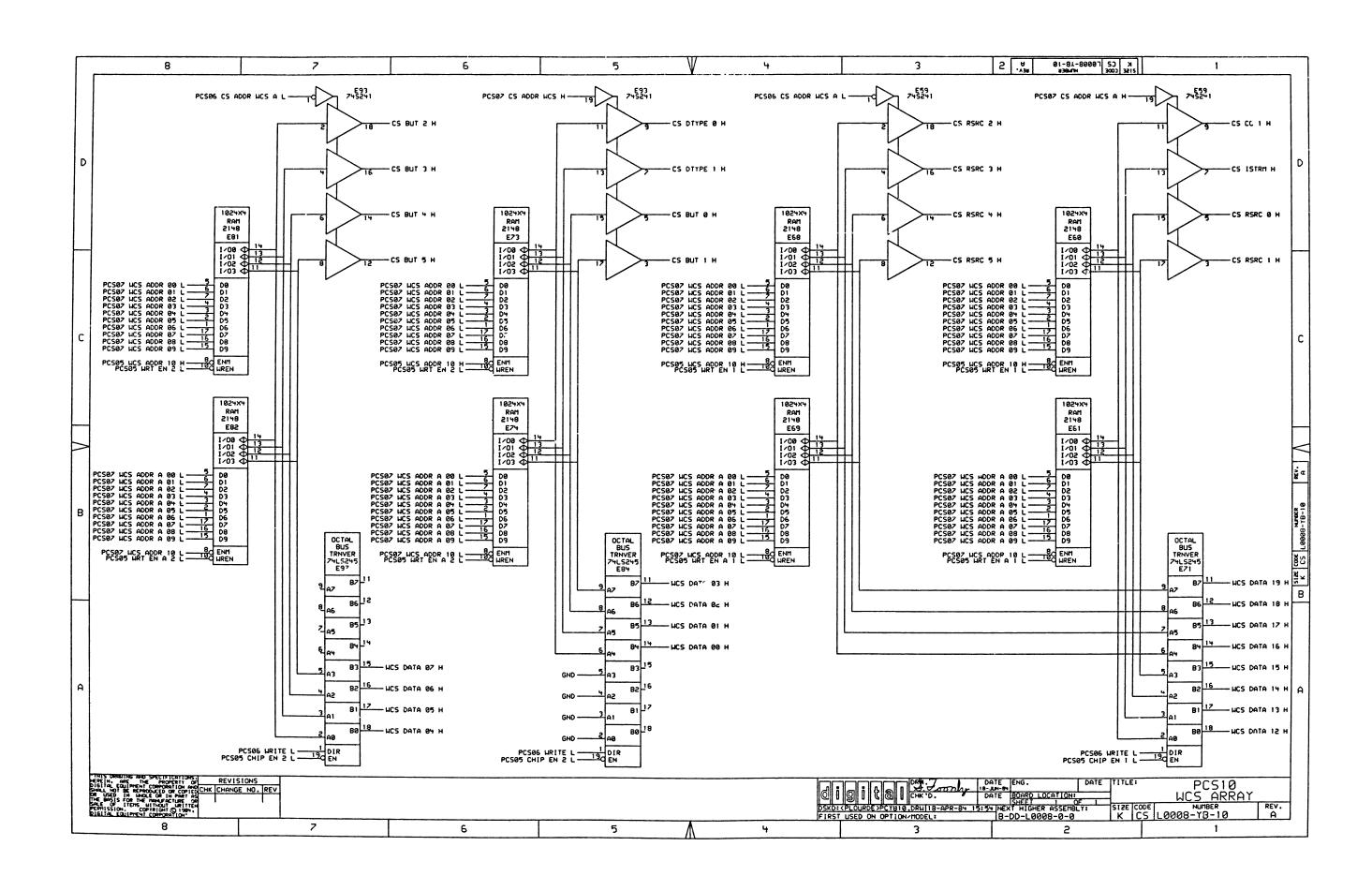


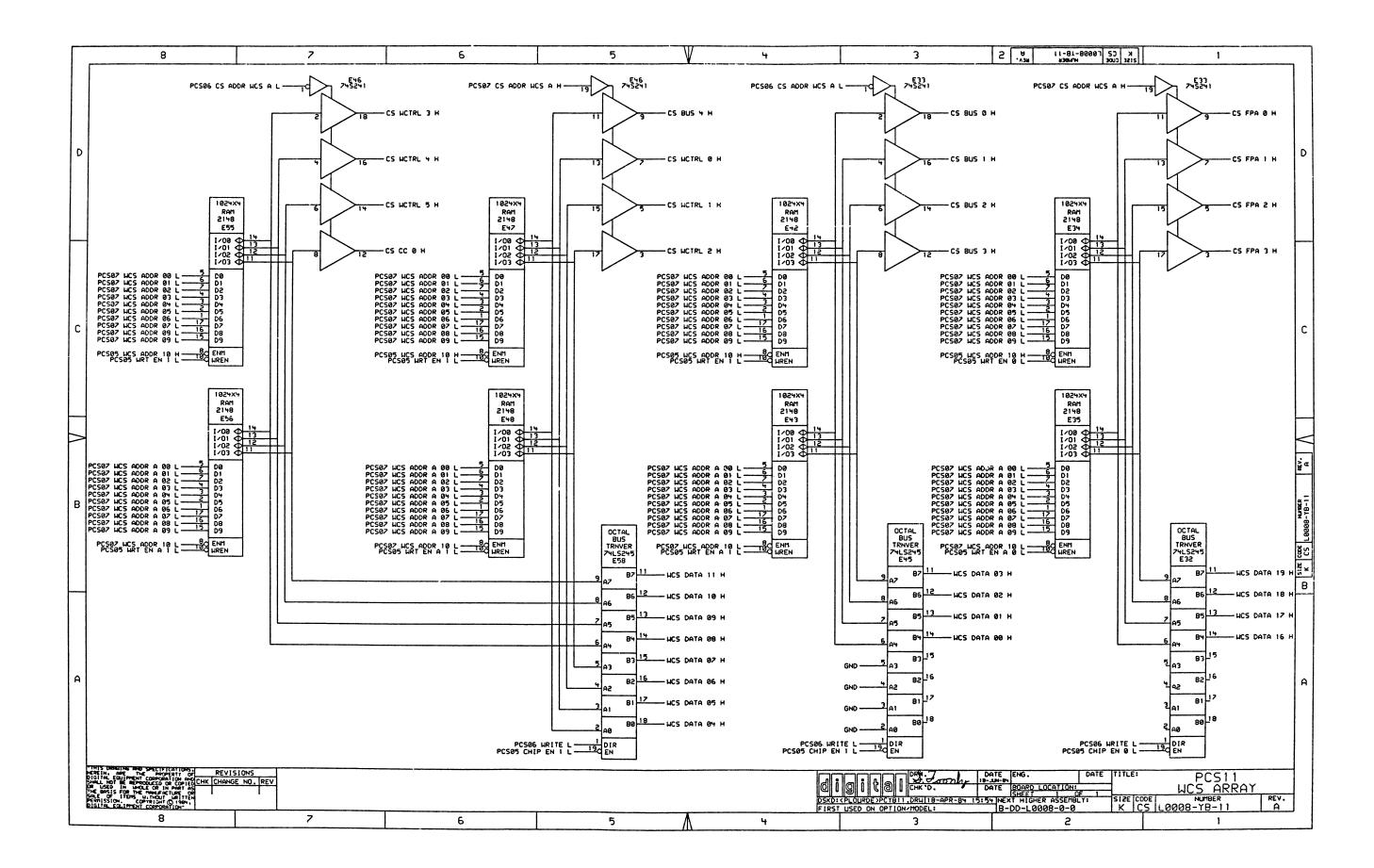


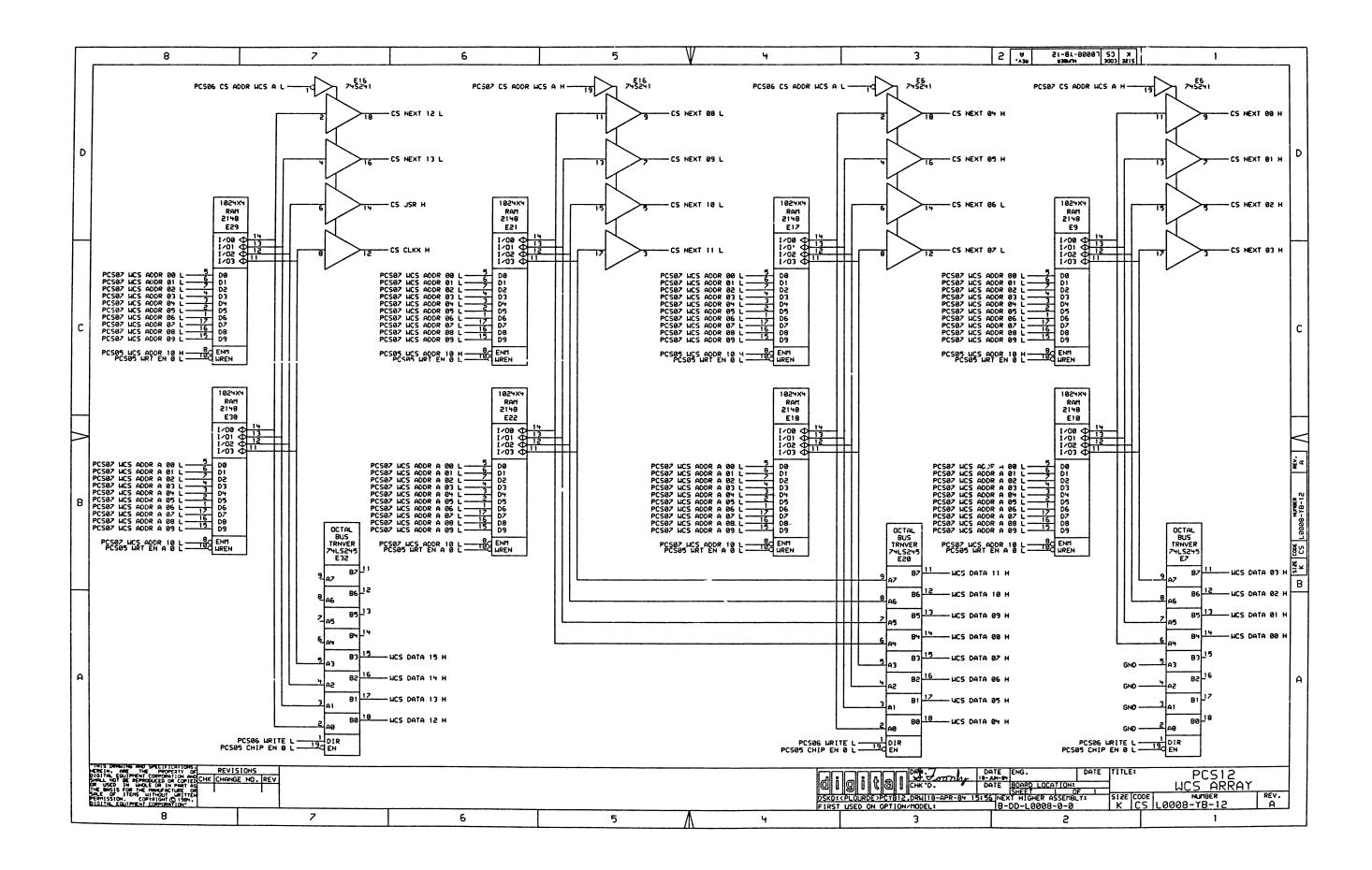


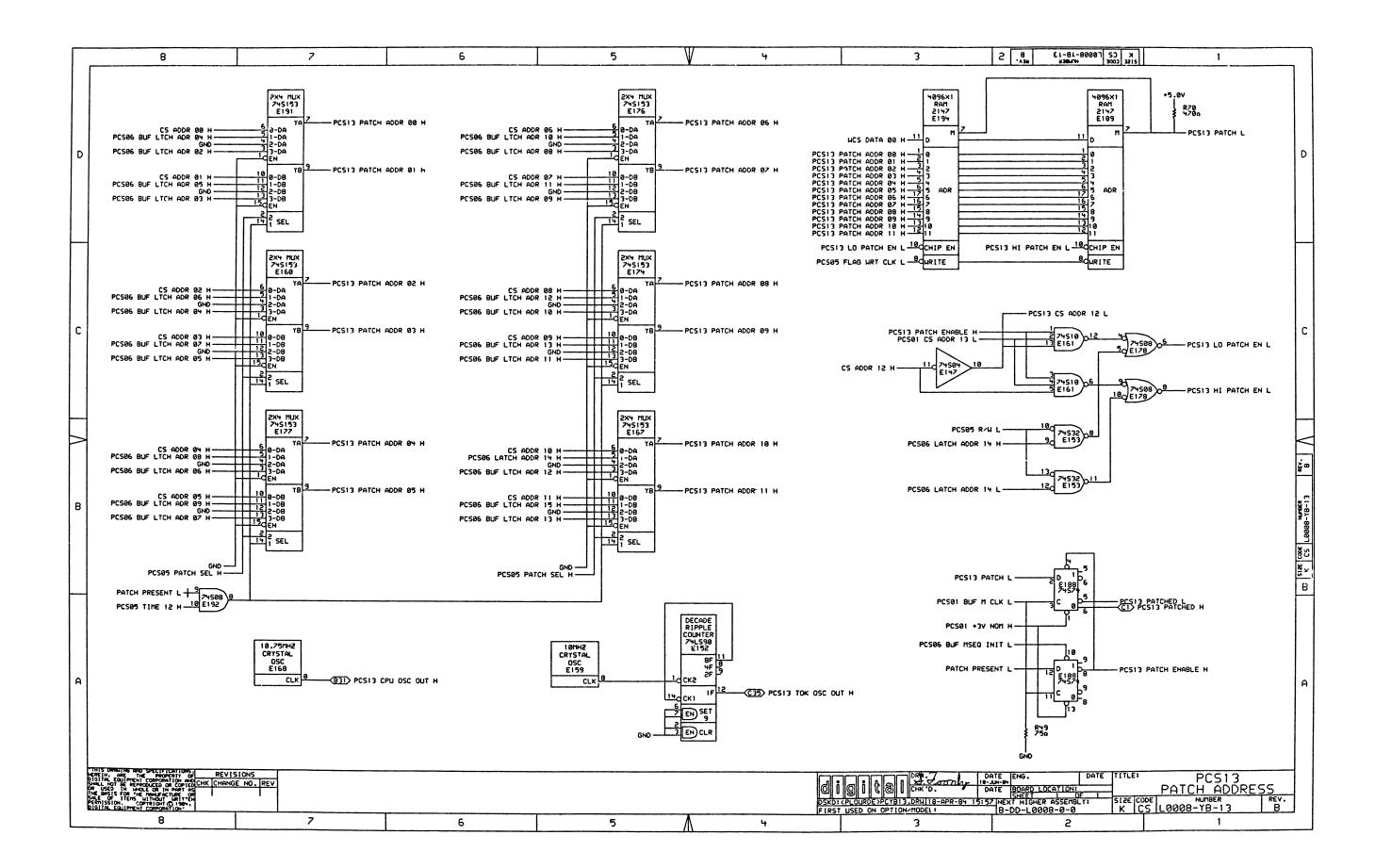


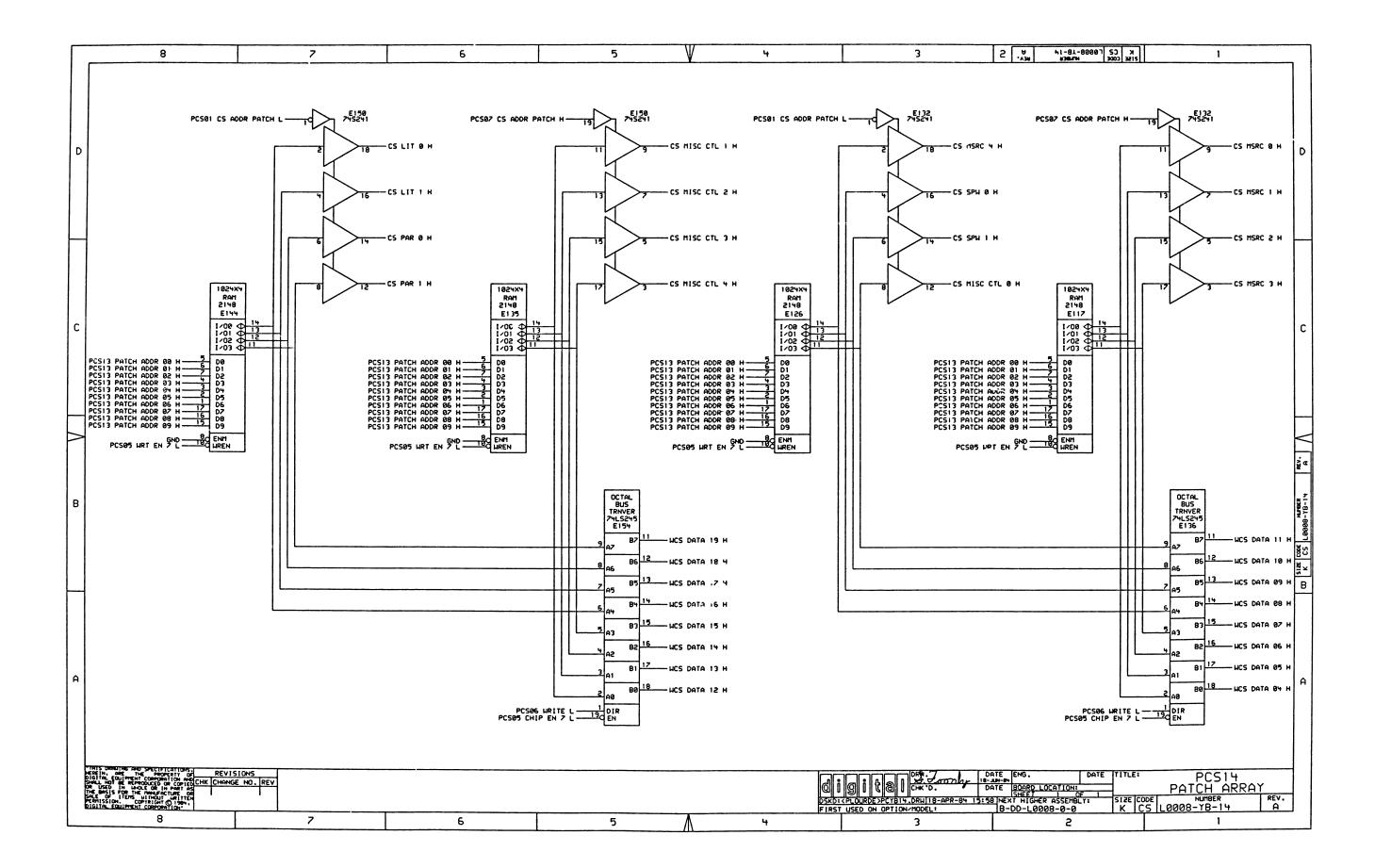


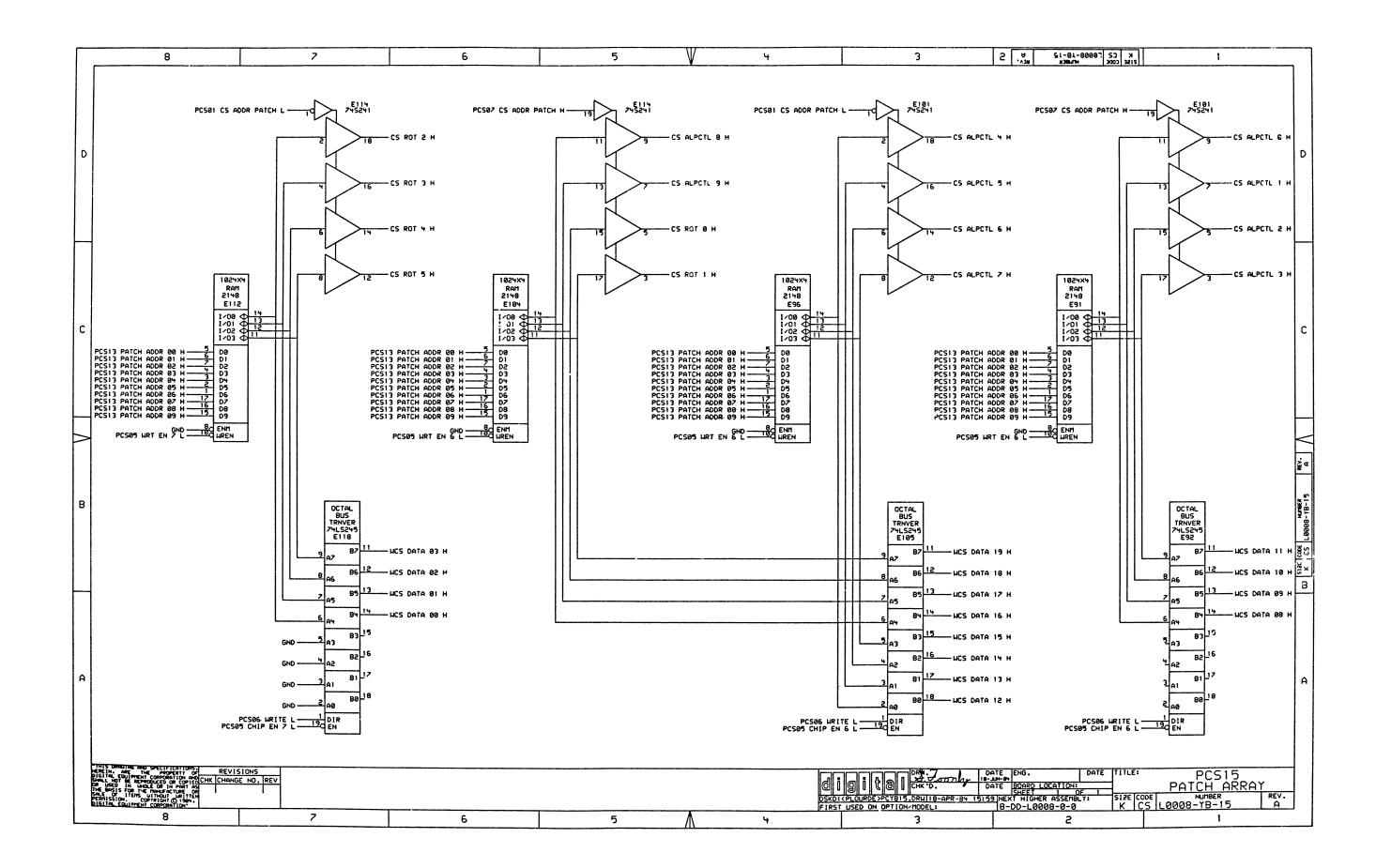


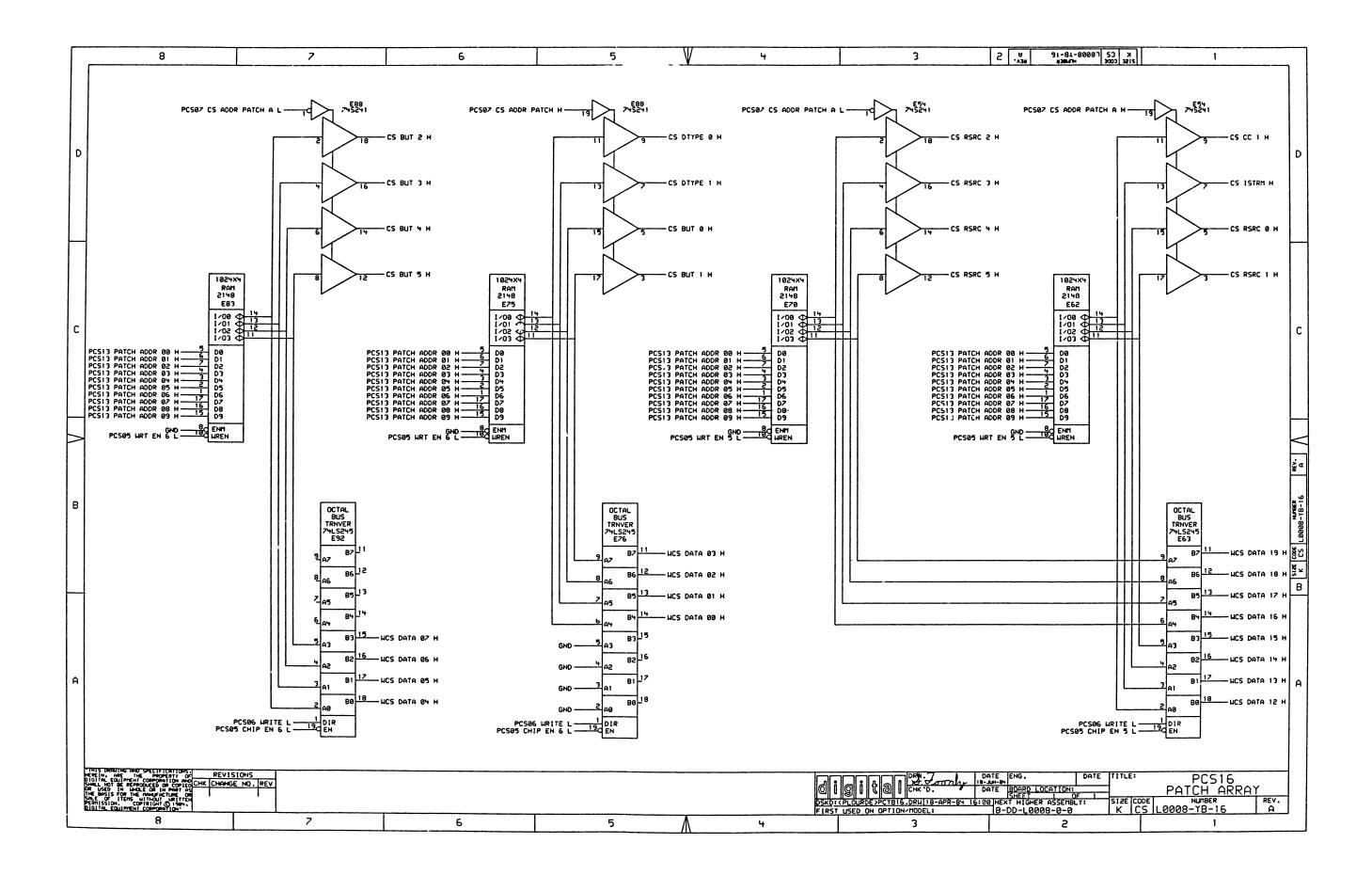


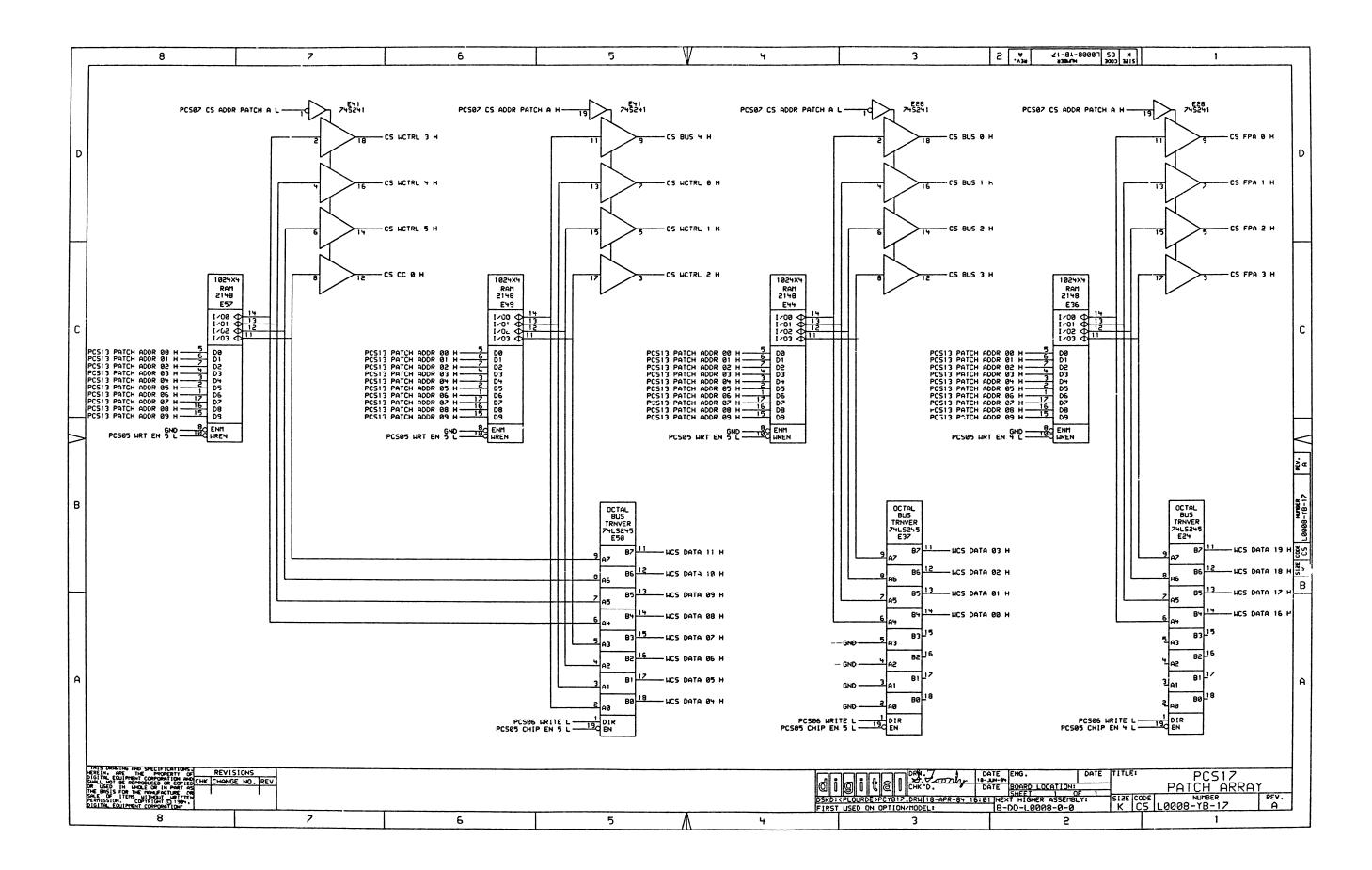


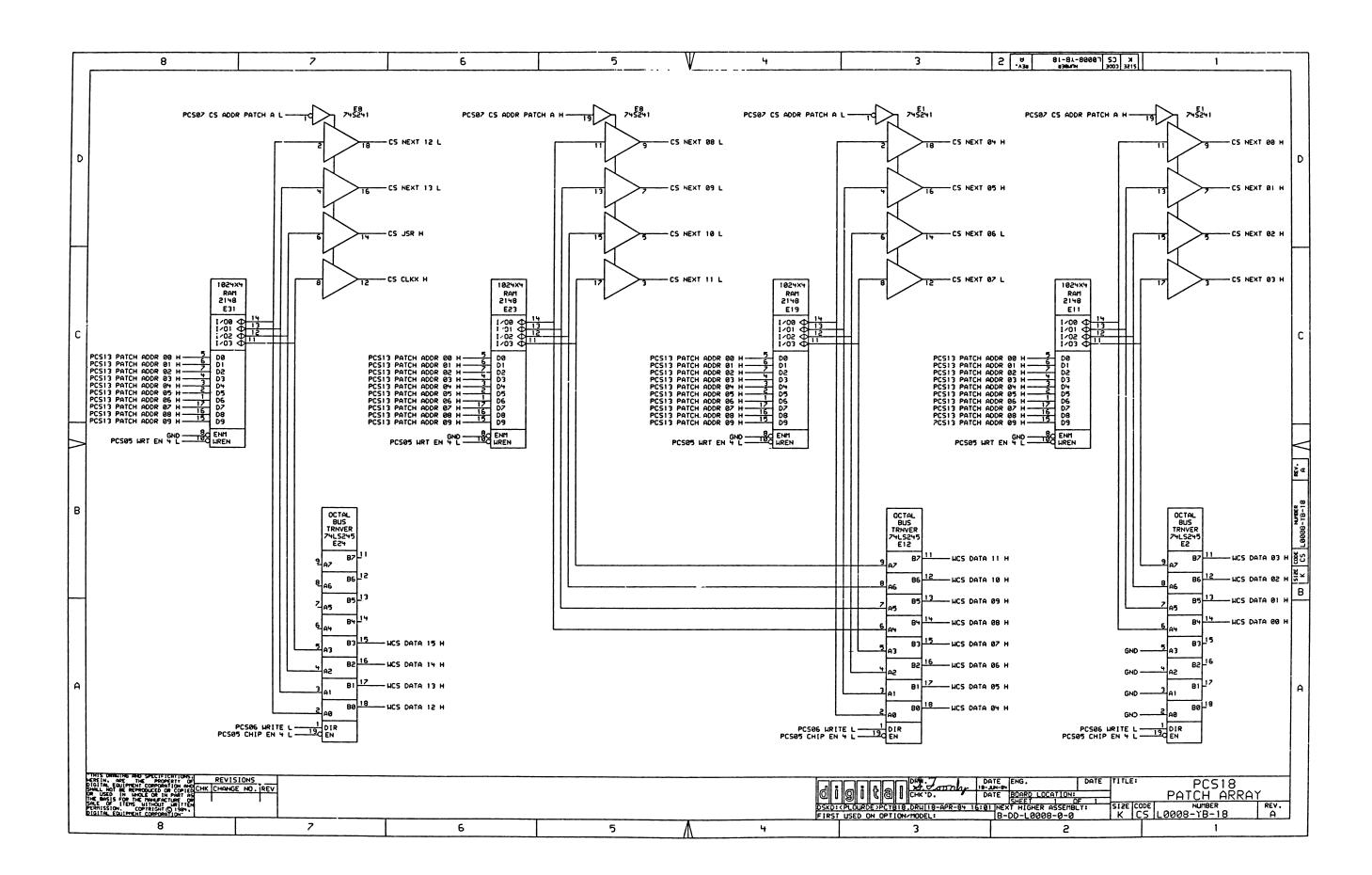


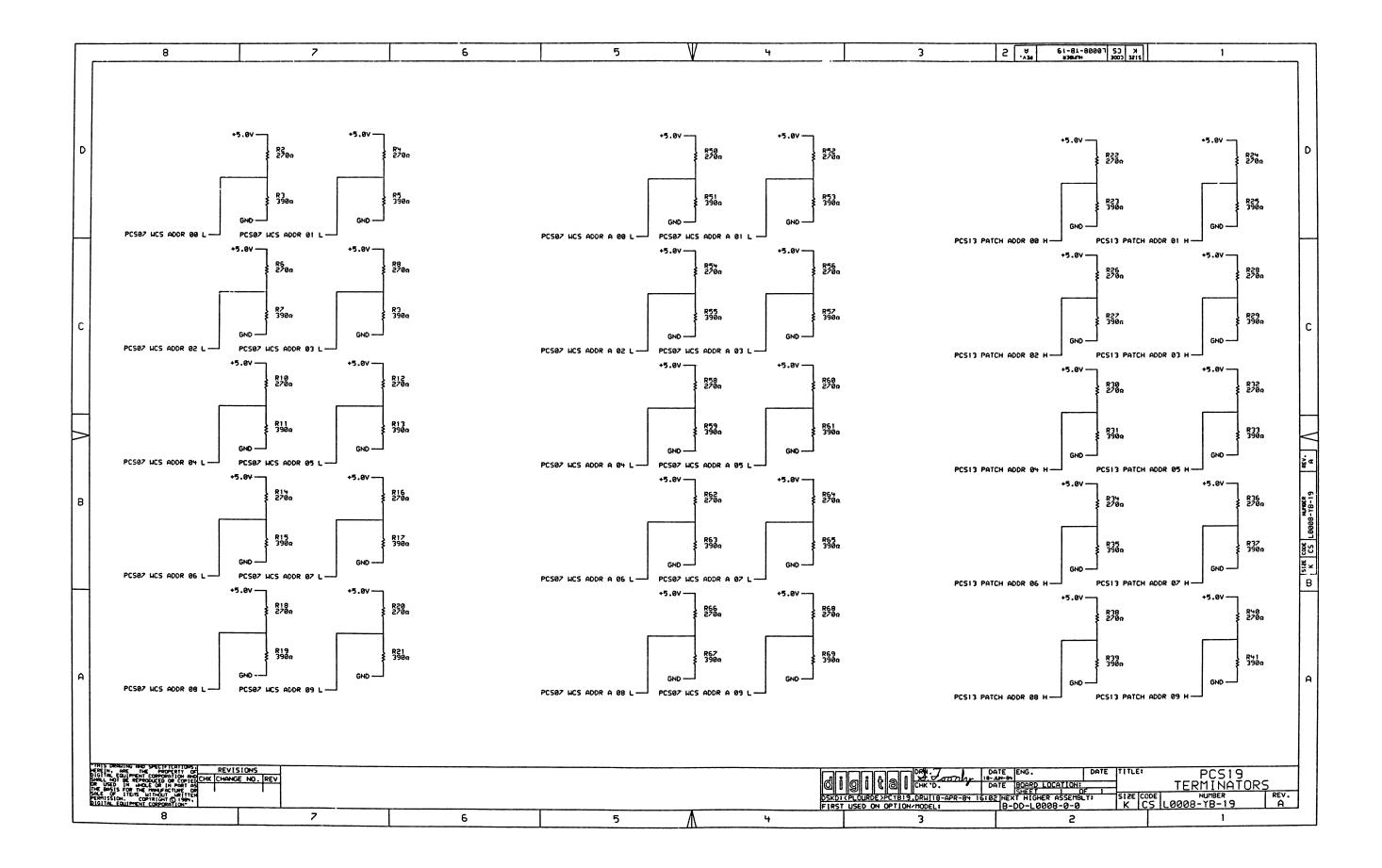


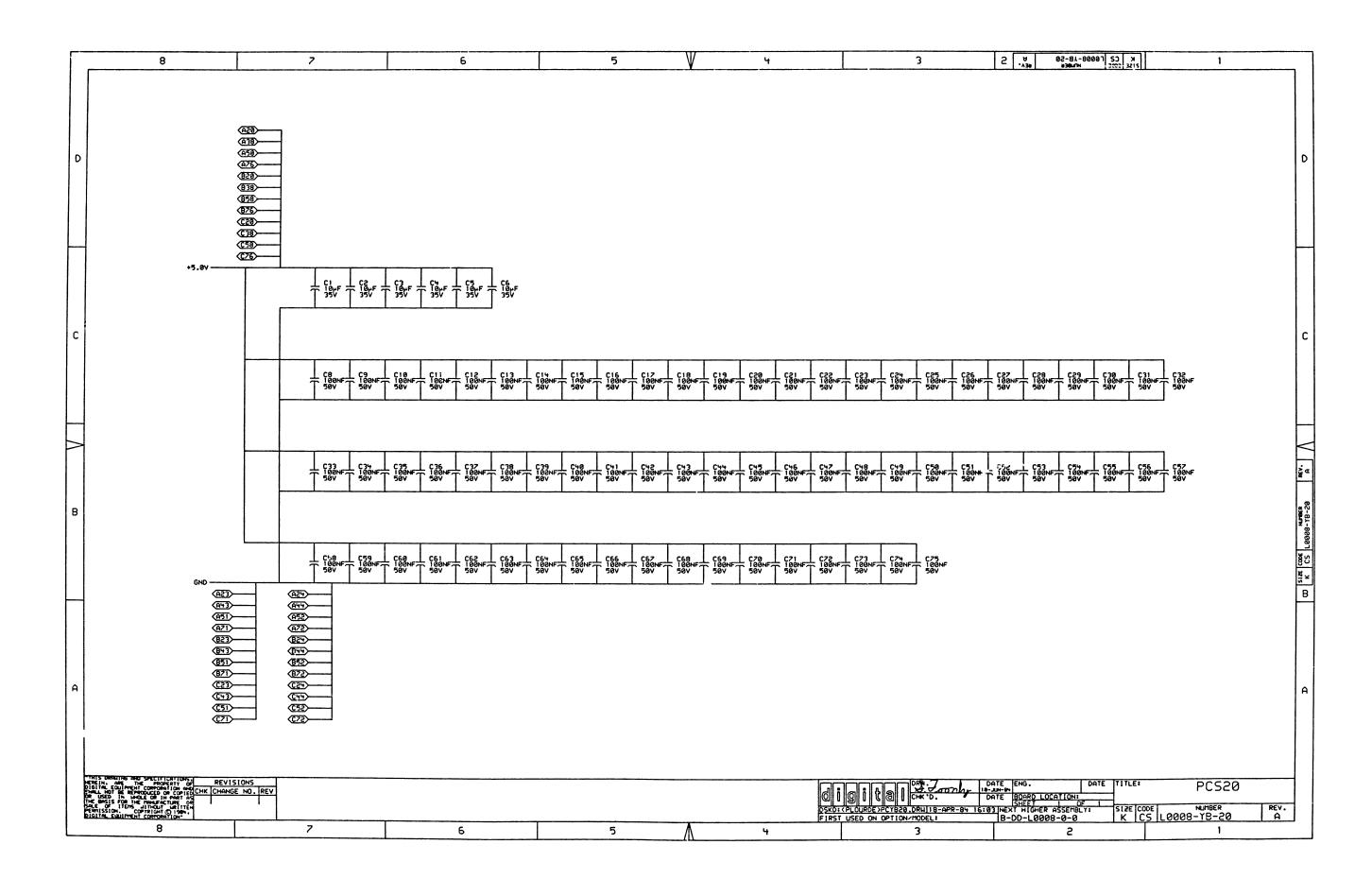








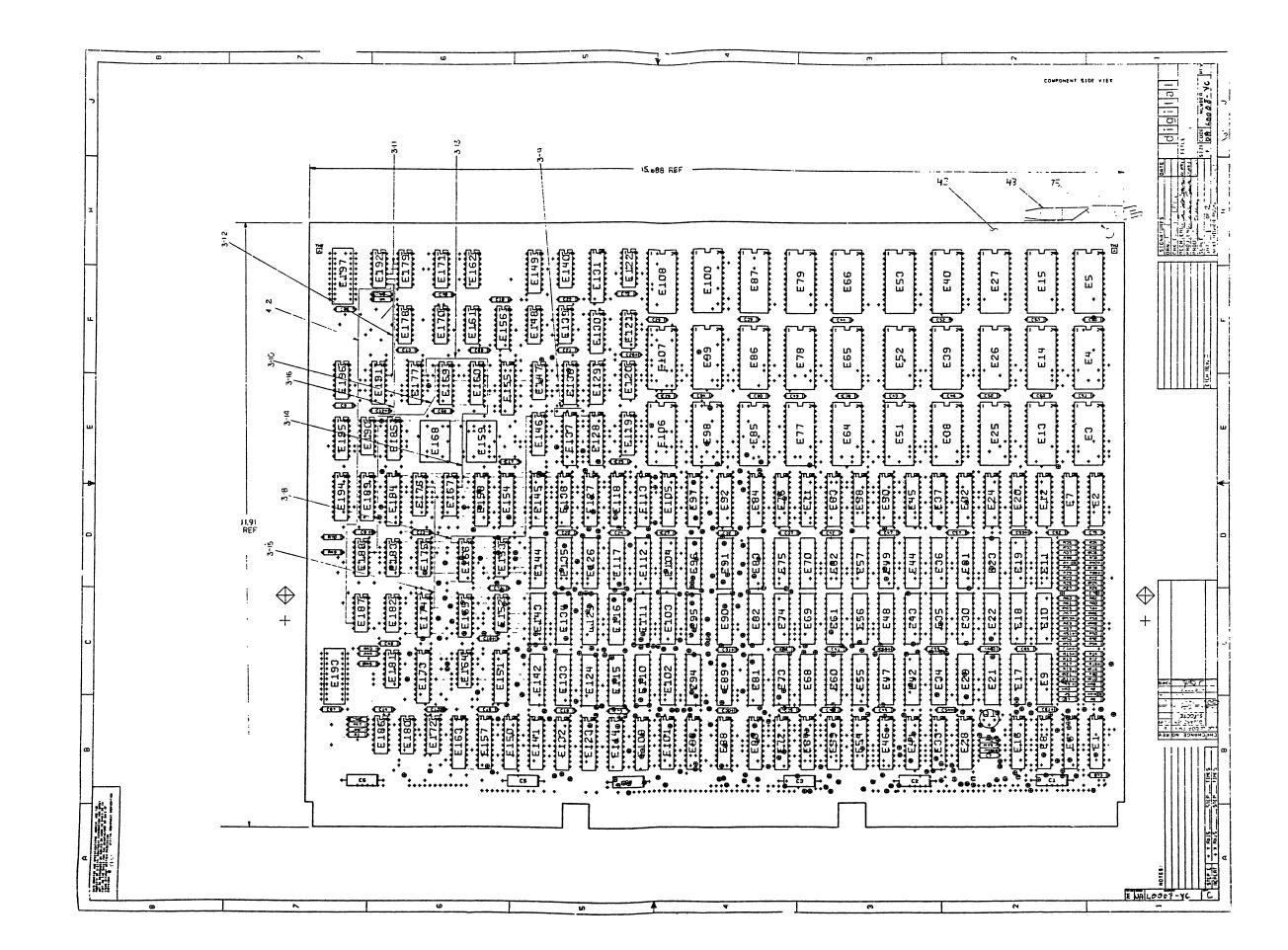


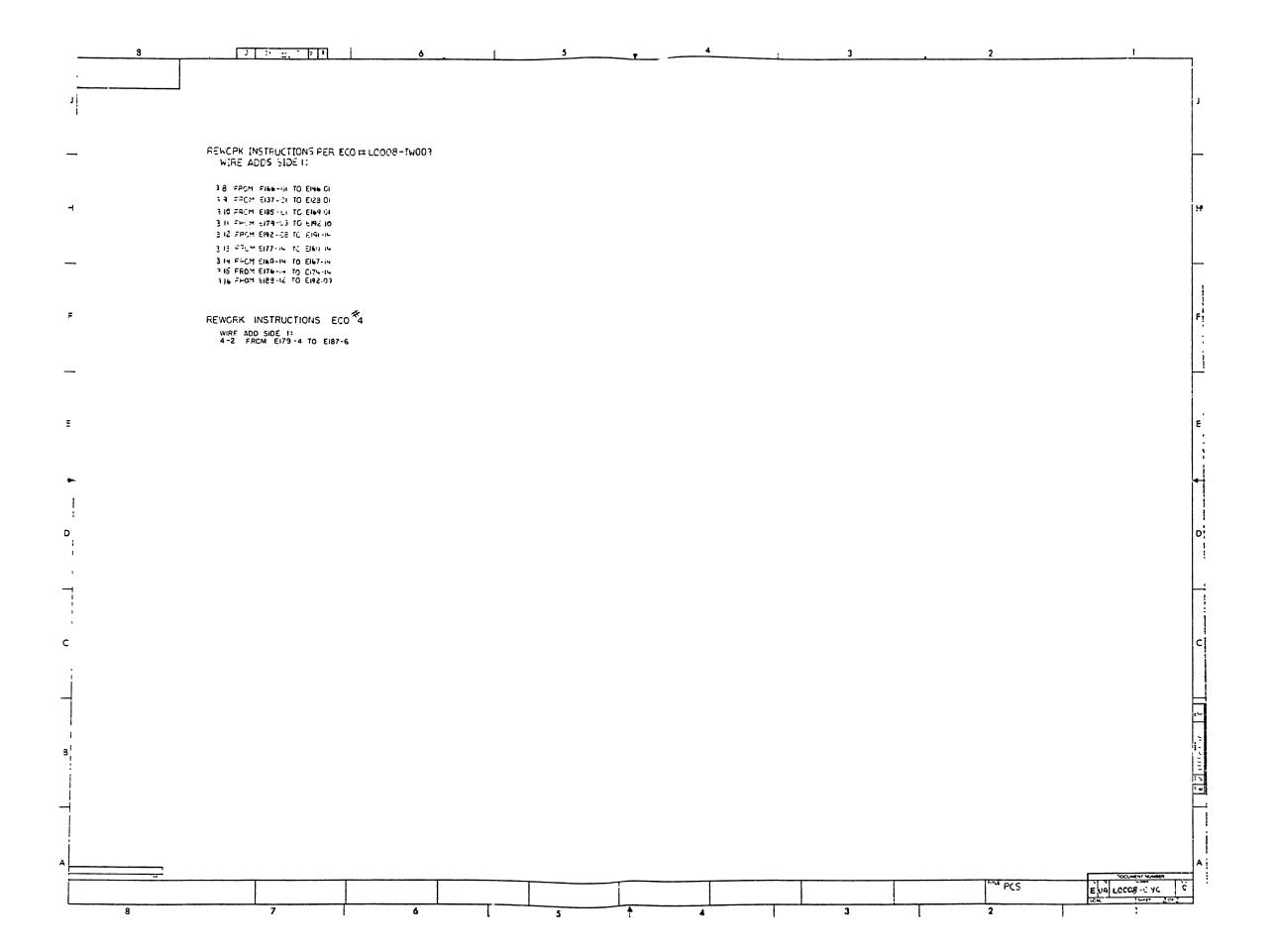


SIZE | CODE NUMBER DRAWING NO. OF PART NO. DESCRIPTION **REVISIONS** _0008 - YC A 1 A 2 B 1 B 2 C 1 C 2 D 2 PARTS REVISION ABBBBBB E-MD-5015549-0-0 DRILL AND ETCH DRAWING BBBBBB 5015549-0 ETCH BOARD AAAABBC E-UA-L0008-0 -YC UNIT ASSEMBLY E-EC-5015549-YC ETCH CUT LOOO8 -YC AAAABBC AABBBBC K-PL-L0008-0-DBP PARTS LIST BBBBBBB K-PC-L0008-0-DBI P. C. DATABASE AAAAAAA K-CS-L0008-YC-01 SCHEMATIC SCHEMATIC K CS L0008 YC 02 ΑΑΑΑΑΑΑ K CS L0008 YC 03 SCHEMATIC K CS L0008 YC 04 SCHEMATIC AAAAAAAA AAAAAB K-CS-L0008-YC-05 SCHEMATIC ΔΑΑΑΑΑΑ K- CS -L0008 -YC-06 SCHEMATIC K-CS-L0008-YC-07 SCHEMATIC AAAAAAA K-CS-L0008-YC-08 SCHEMATIC AAAAAAAA AAAAAAA K-CS-L0008 -YC-09 SCHEMATIC AAAAAA K-CS-L0008-YC-10 SCHEMATIC AAAAAA K-CS-L0008 -YC-11 SCHEMATIC AAAAAAA K-CS-L0008-YC-12 SCHEMATIC K-CS-L0008-YC-13 SCHEMATIC AAABBBB ΔΑΑΑΑΑΑ K-CS-L0008 -YC-14 SCHEMATIC AAAAAAA K-CS-L0008 -YC-15 SCHEMATIC K-CS-L0008-YC-16 AAAAAA SCHEMATIC K-CS-L0008 -YC -17 SCHEMATIC AAAAAAA K-CS-L0003 -YC -18 SCHEMATIC ALALALALA K-CS-L0008-YC-19 AAAAAAA SCHEMATIC **NOTES:** TW001 TW002 TW003 TW003 REVISIONS CHG NO. 7-83 |1-83 |1-83 |1-83 |1-83 DRN. DFOURNER CHK'D TITLE **USED ON OPTION/MODEL** "THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PRO-5-1.34 PCS PERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF NUMBER REV. ENG. ITEMS WITHOUT WRITTEN PERMISSION. **B** | **DD** | L0008-YC Ε PROD. COPYRIGHT® 1984 DIGITAL EQUIPMENT CORPORATION SHEET | OF 2

B | **DD** | **F**0008-AC

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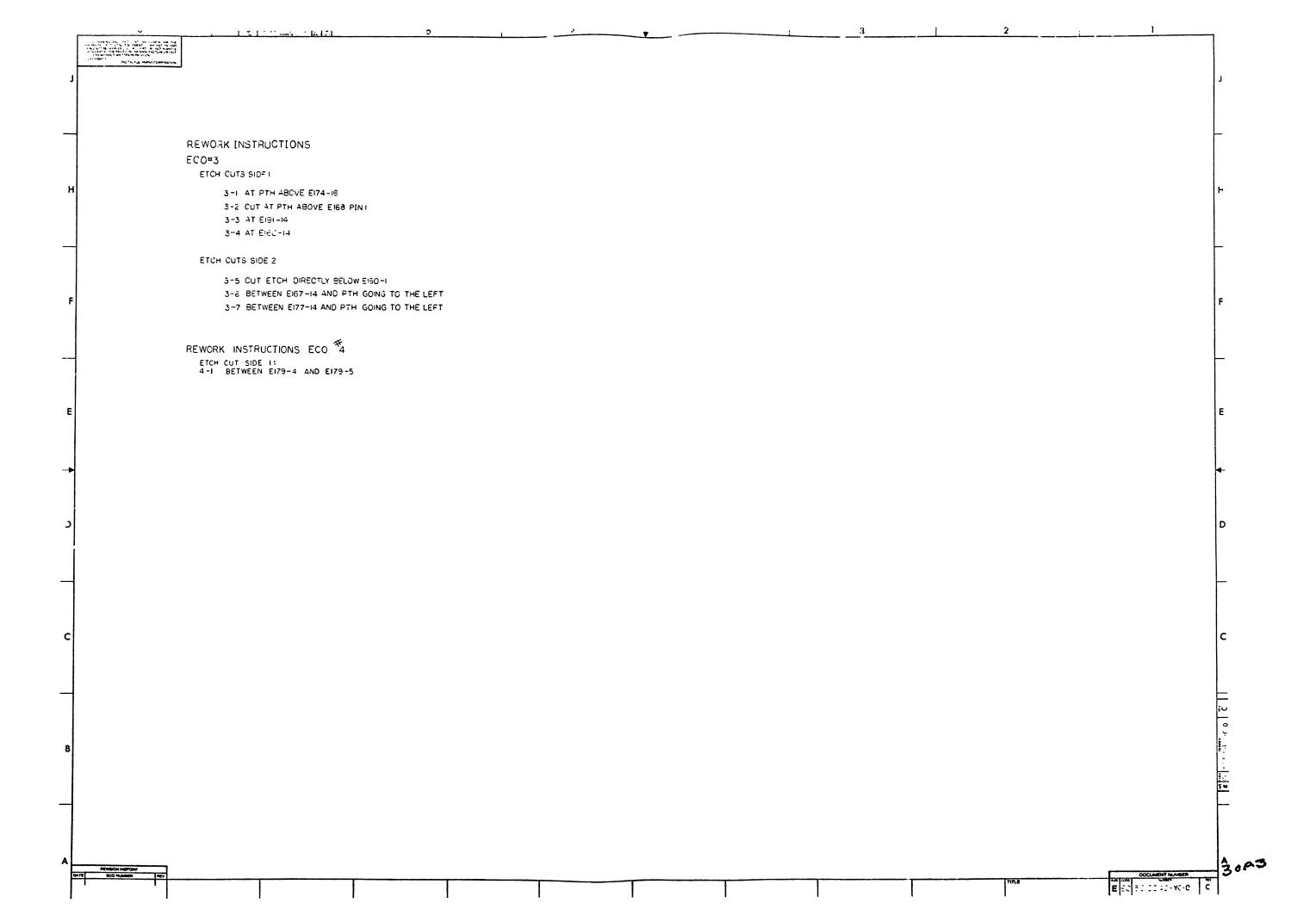
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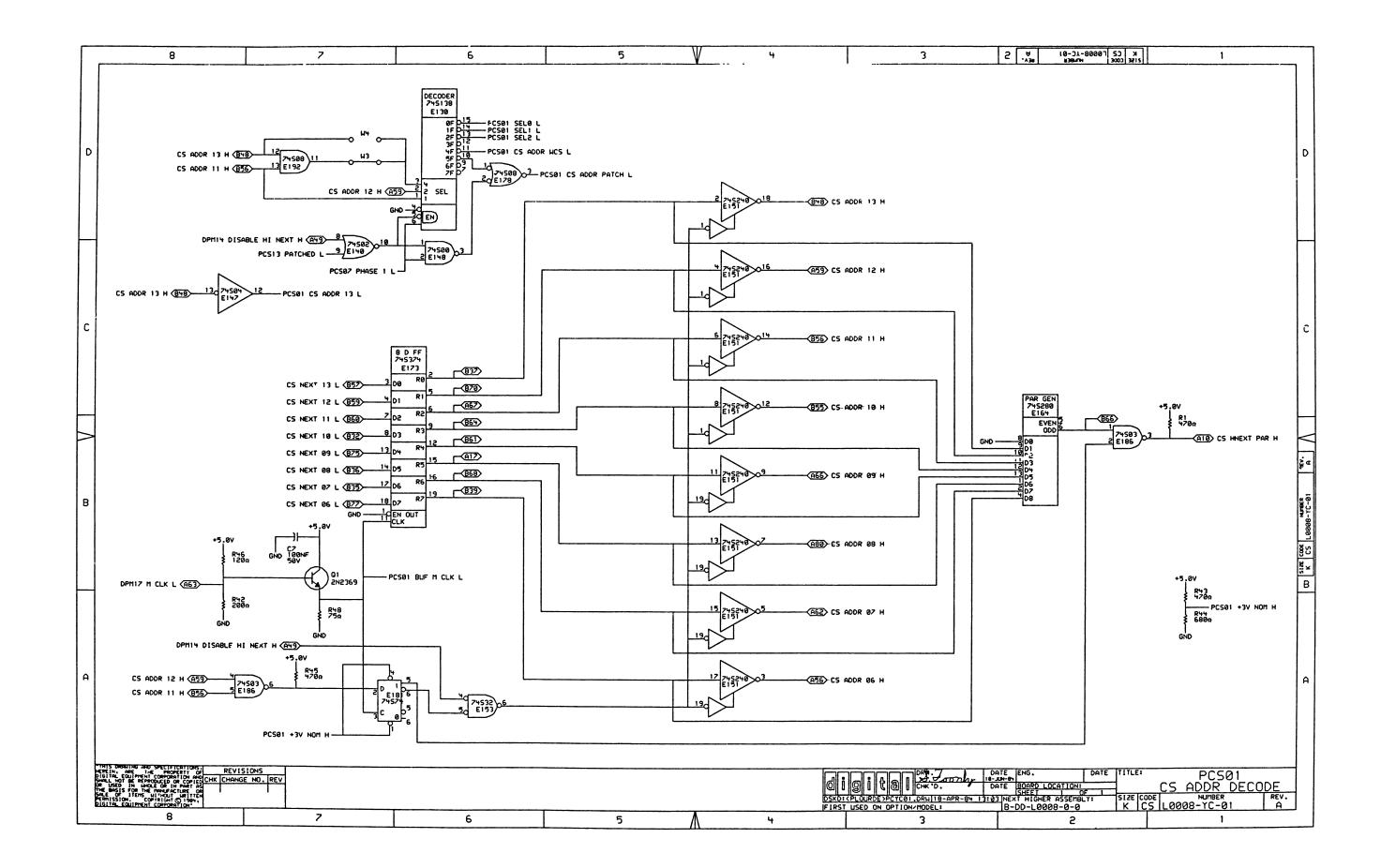
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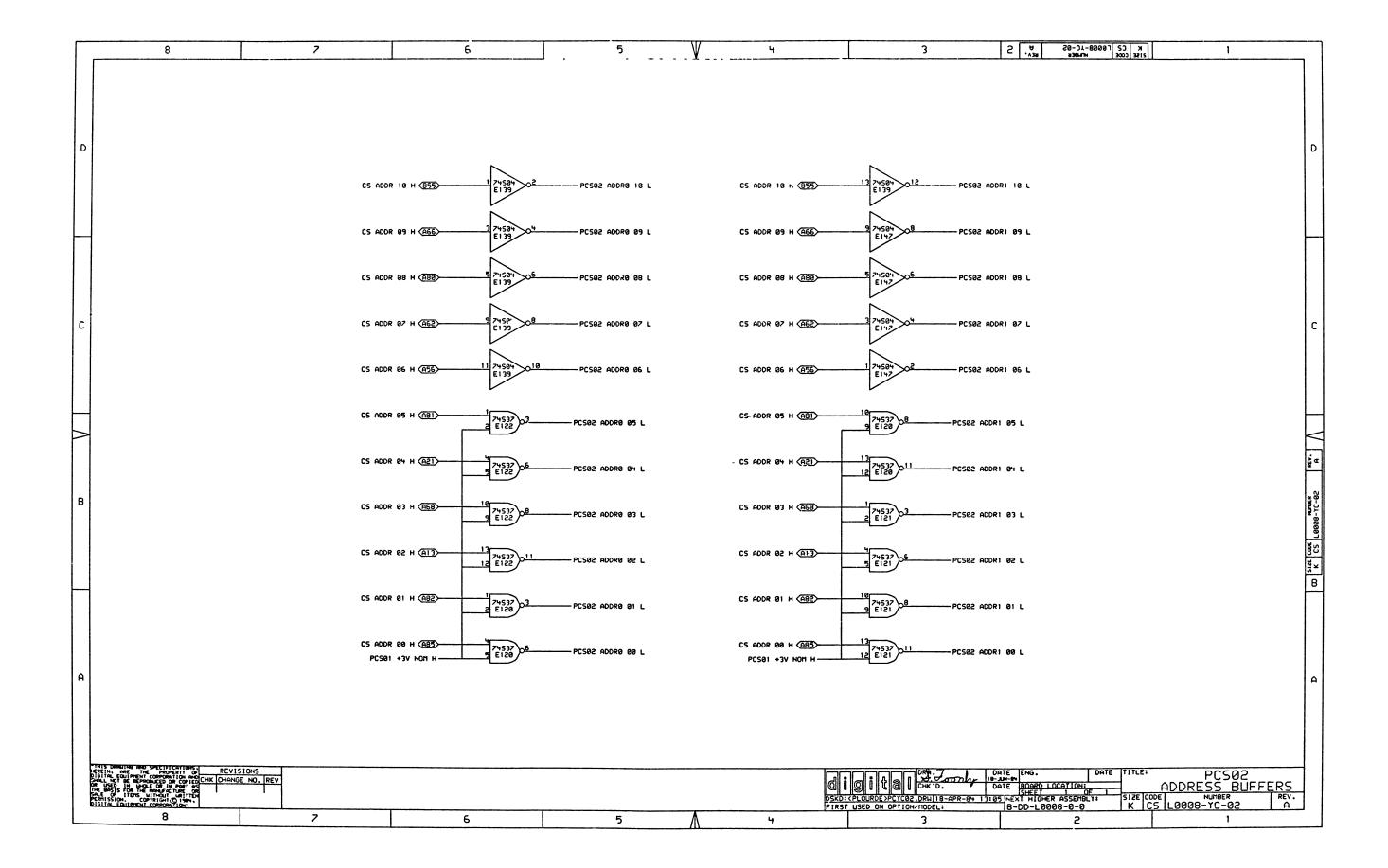
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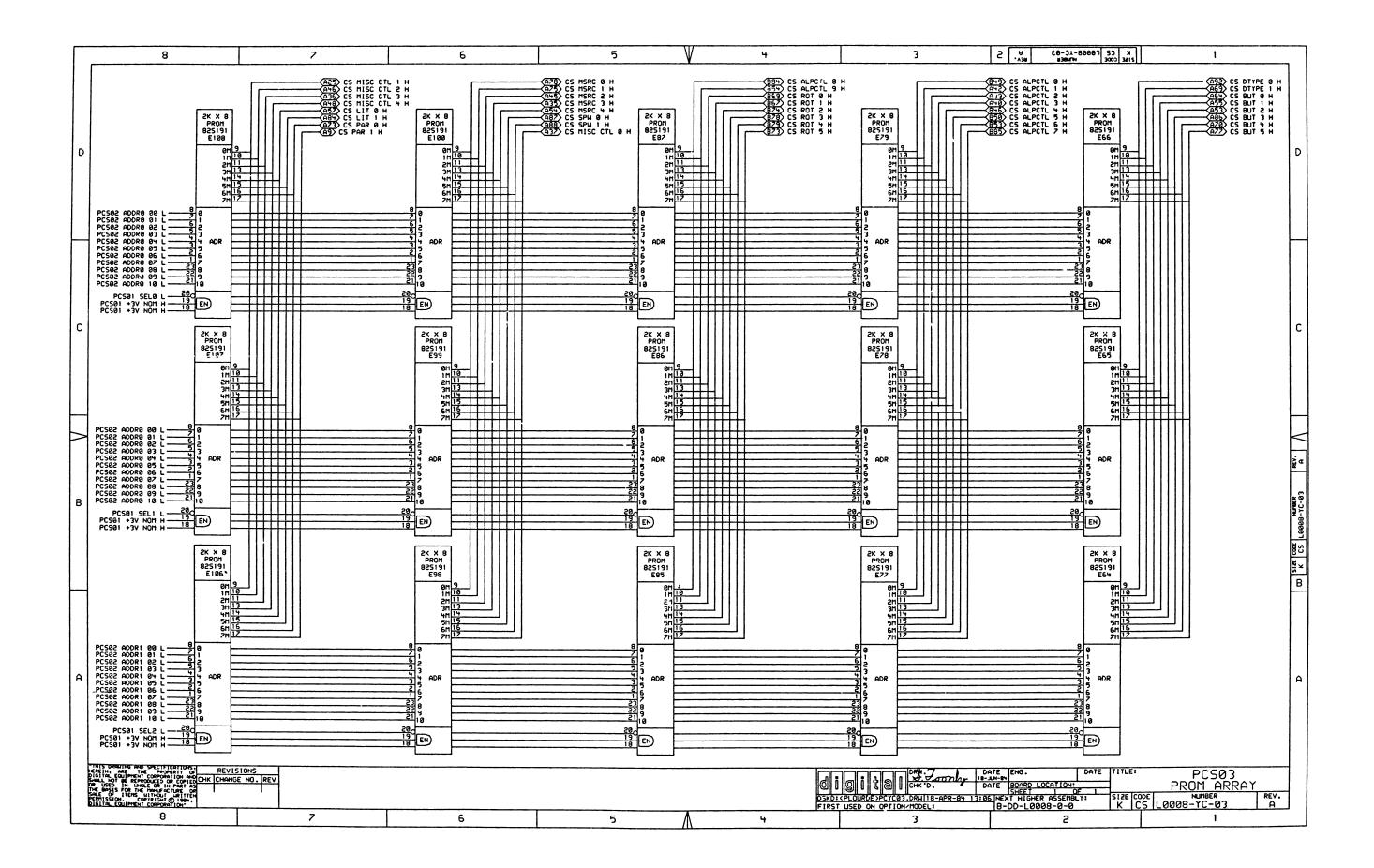
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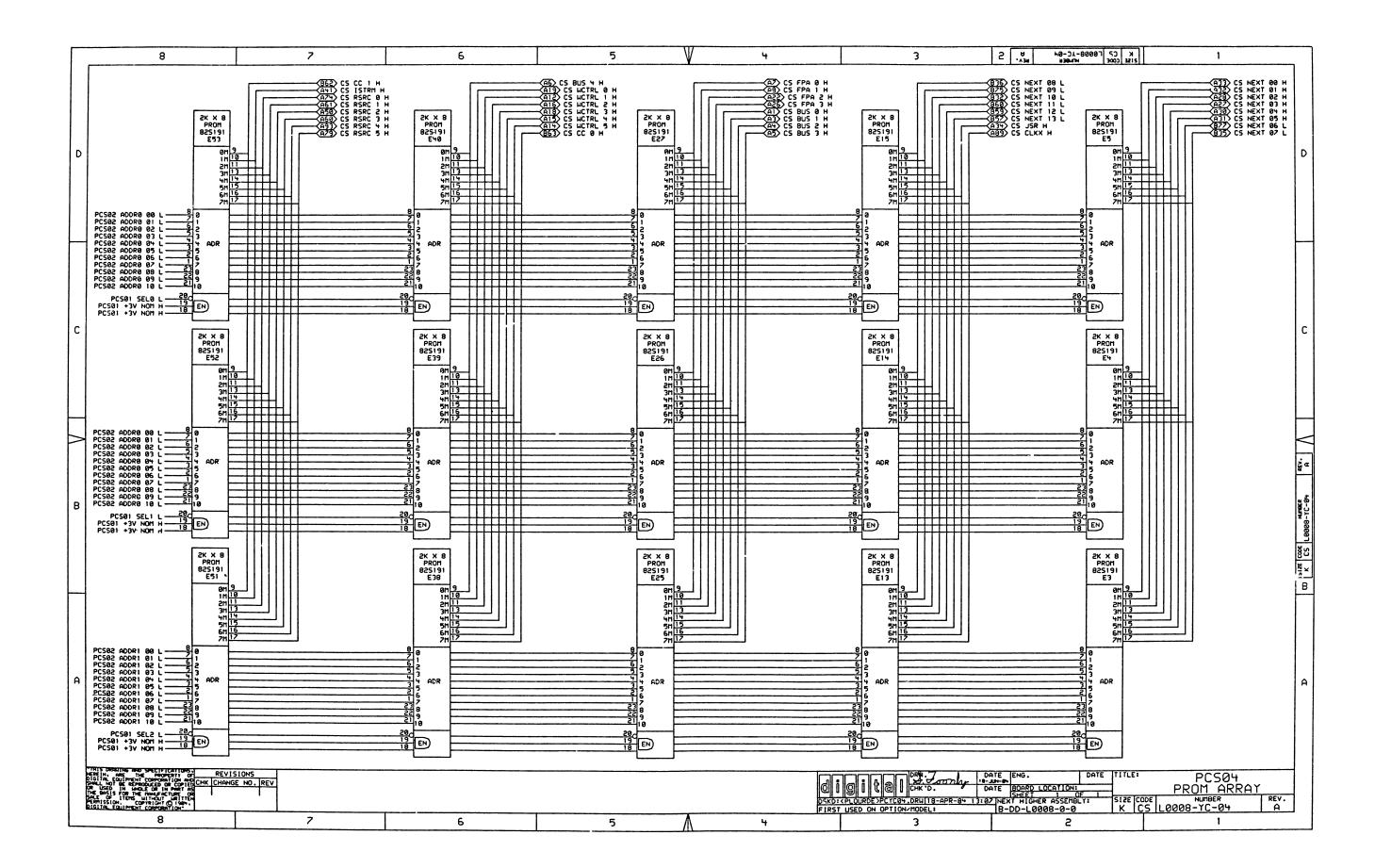
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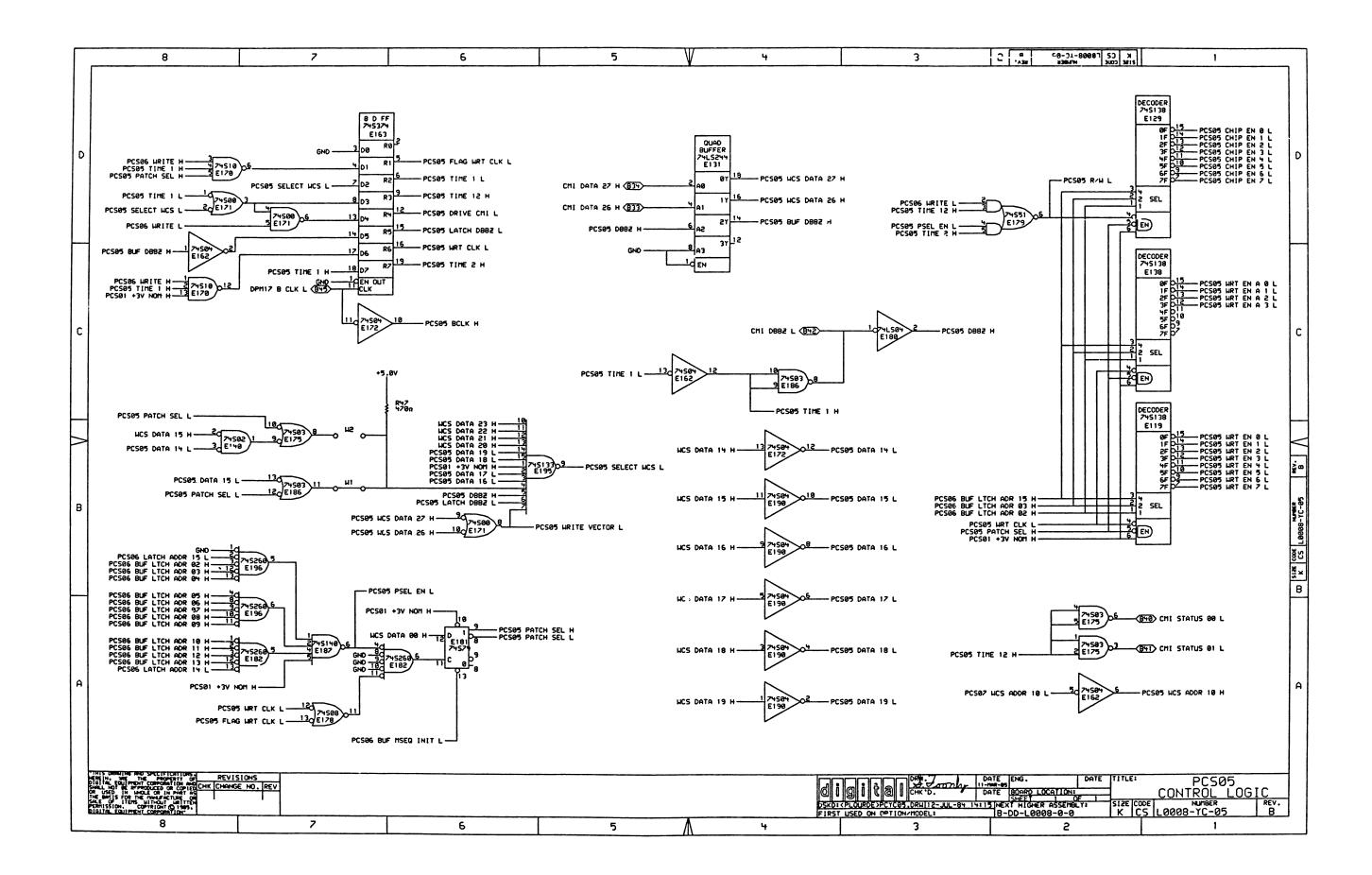


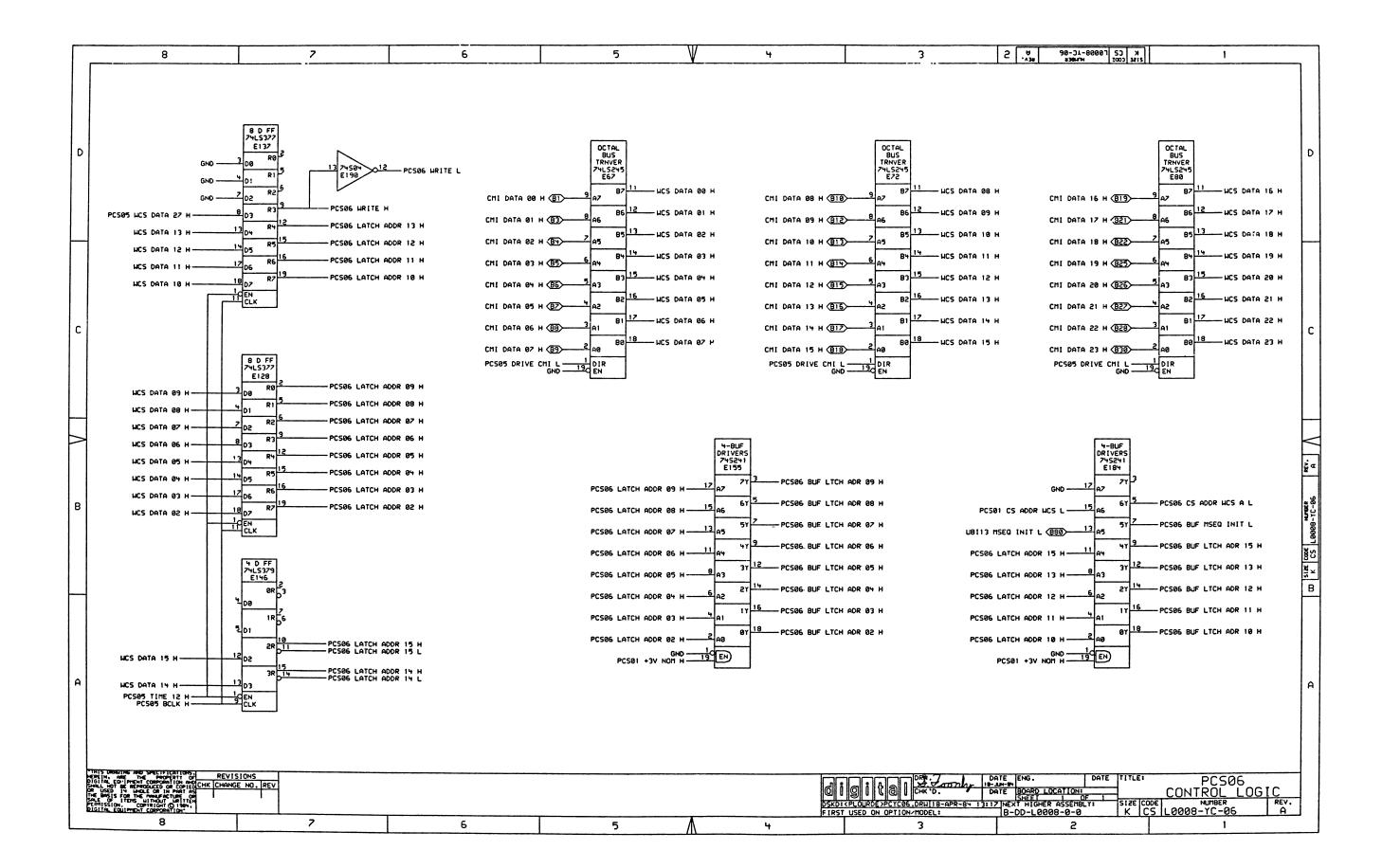


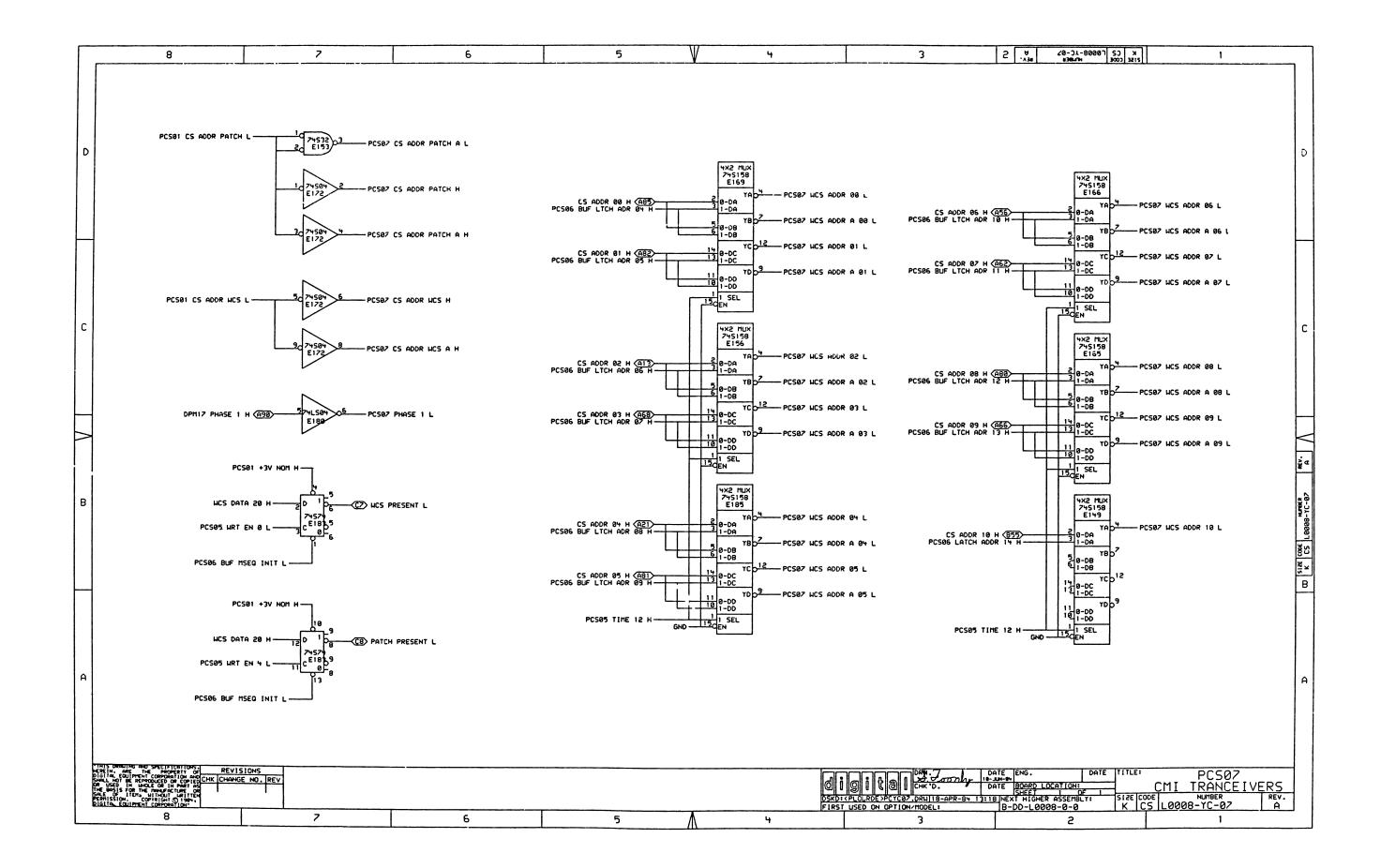


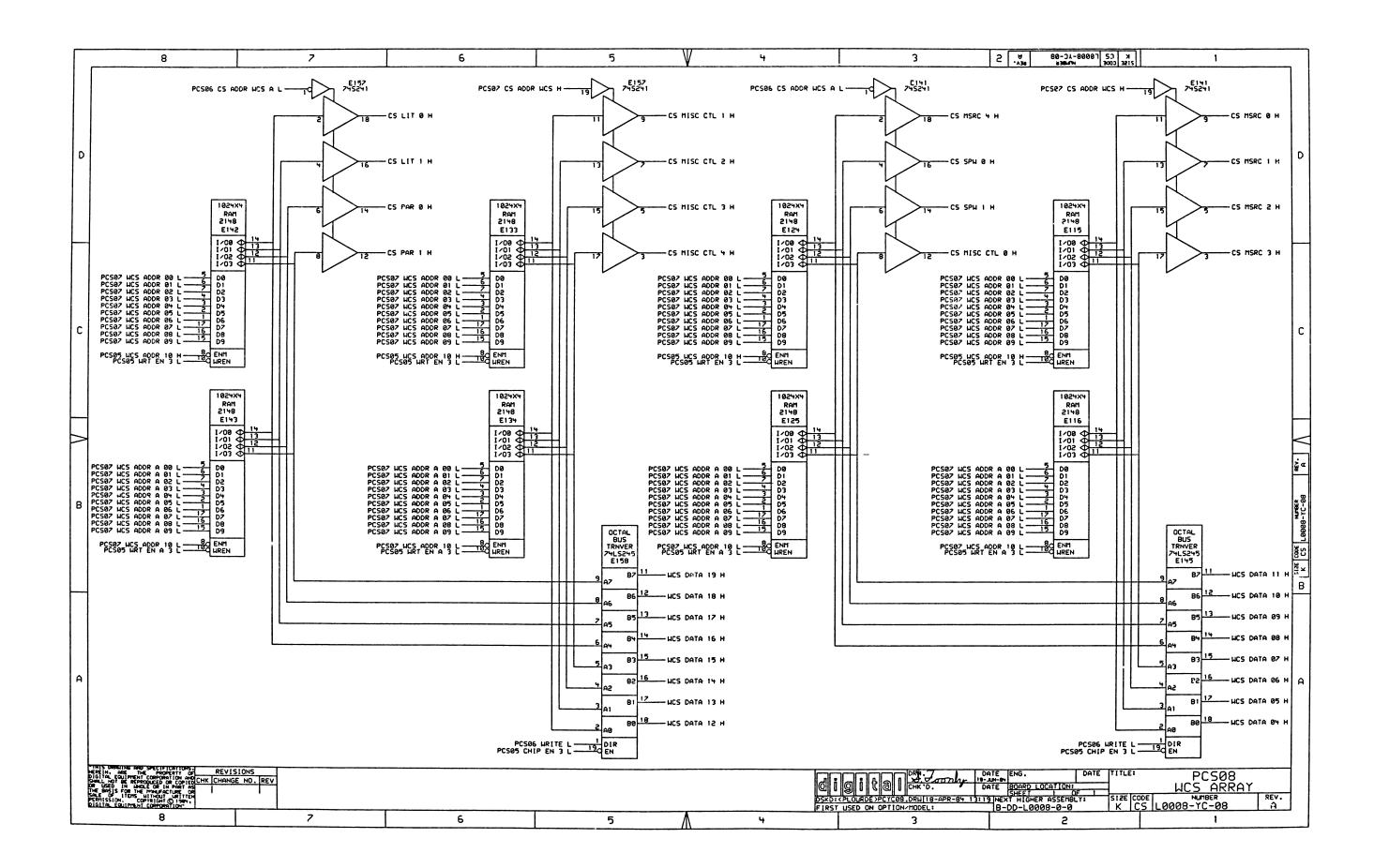


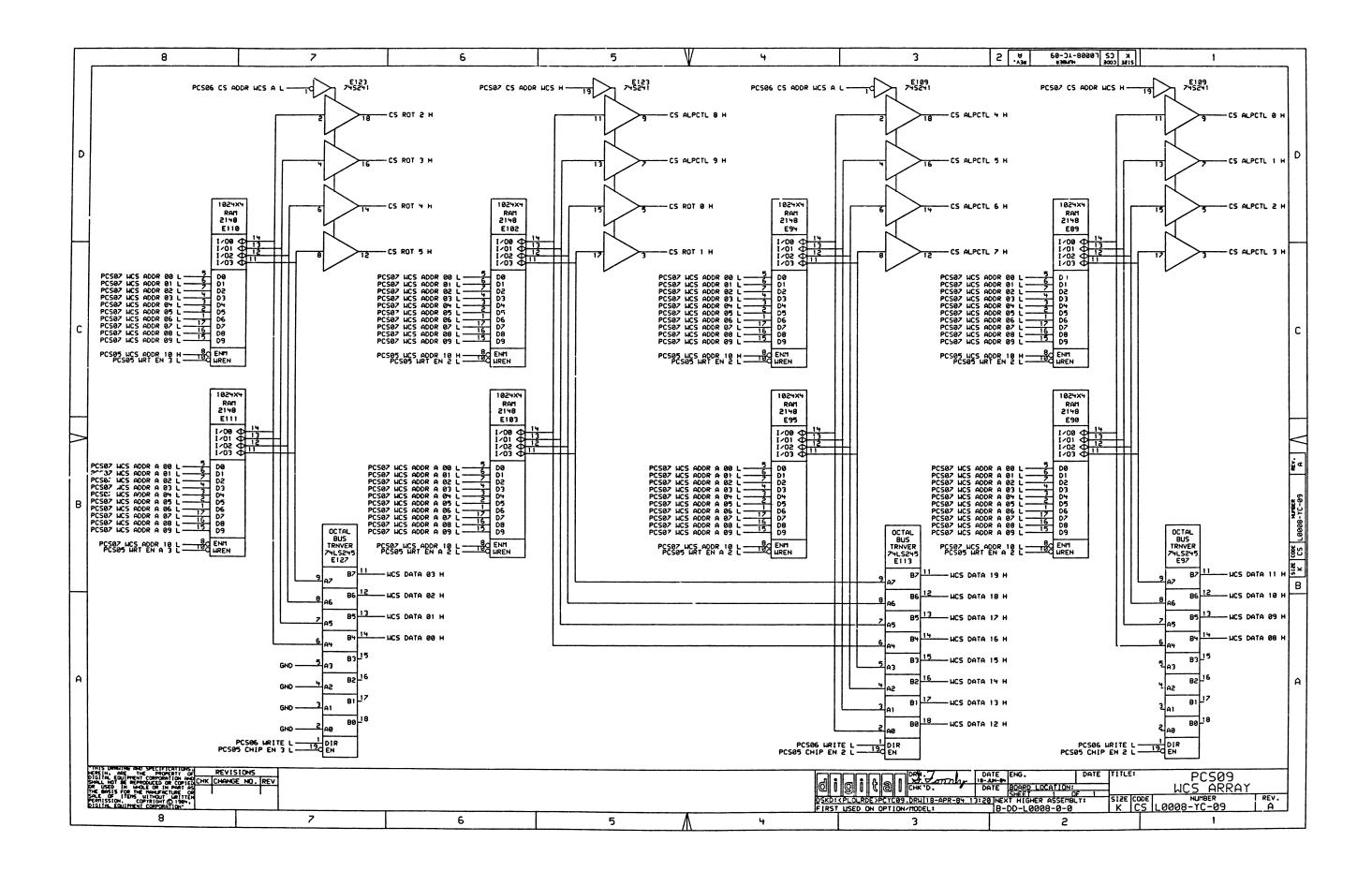


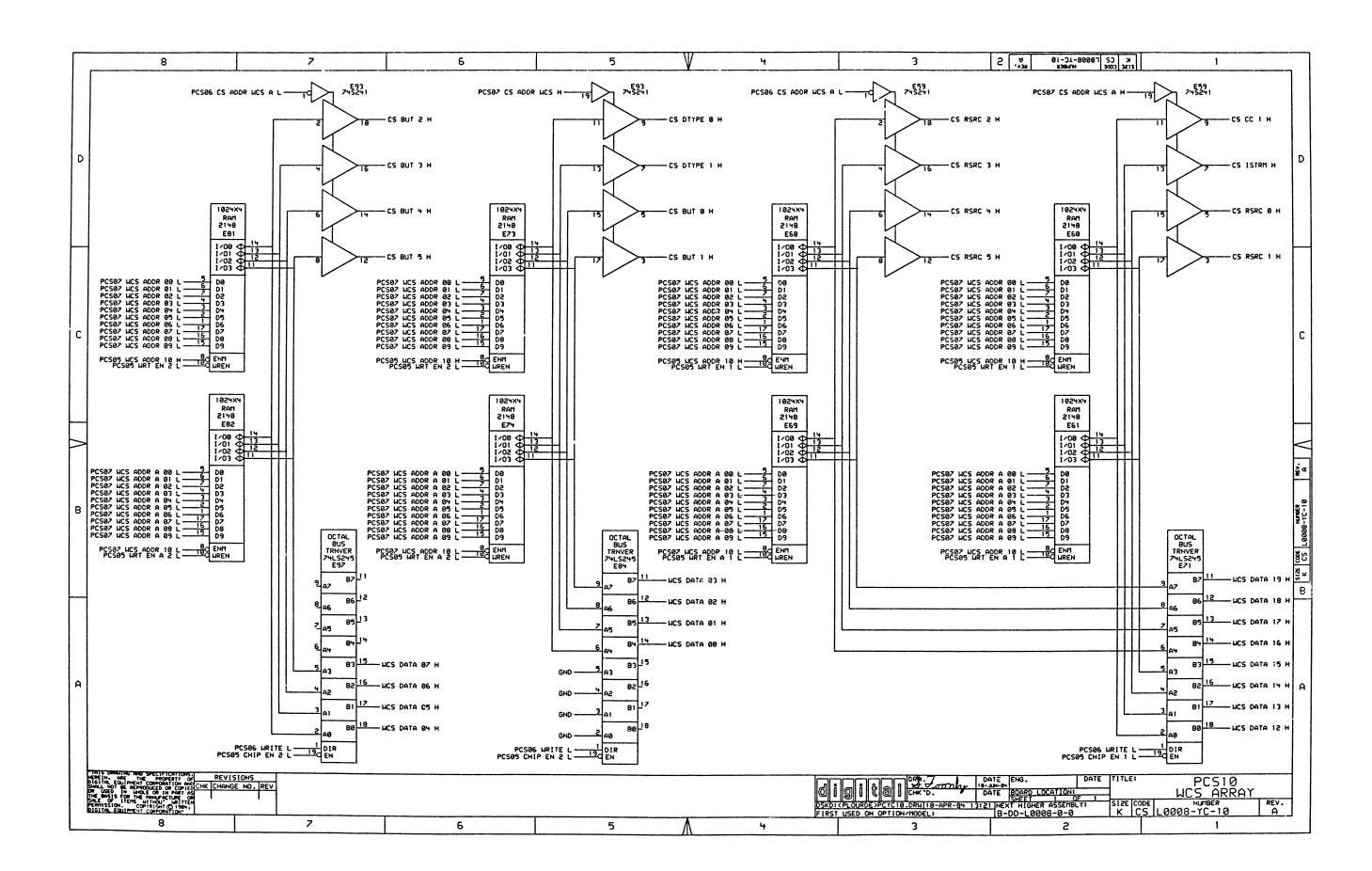


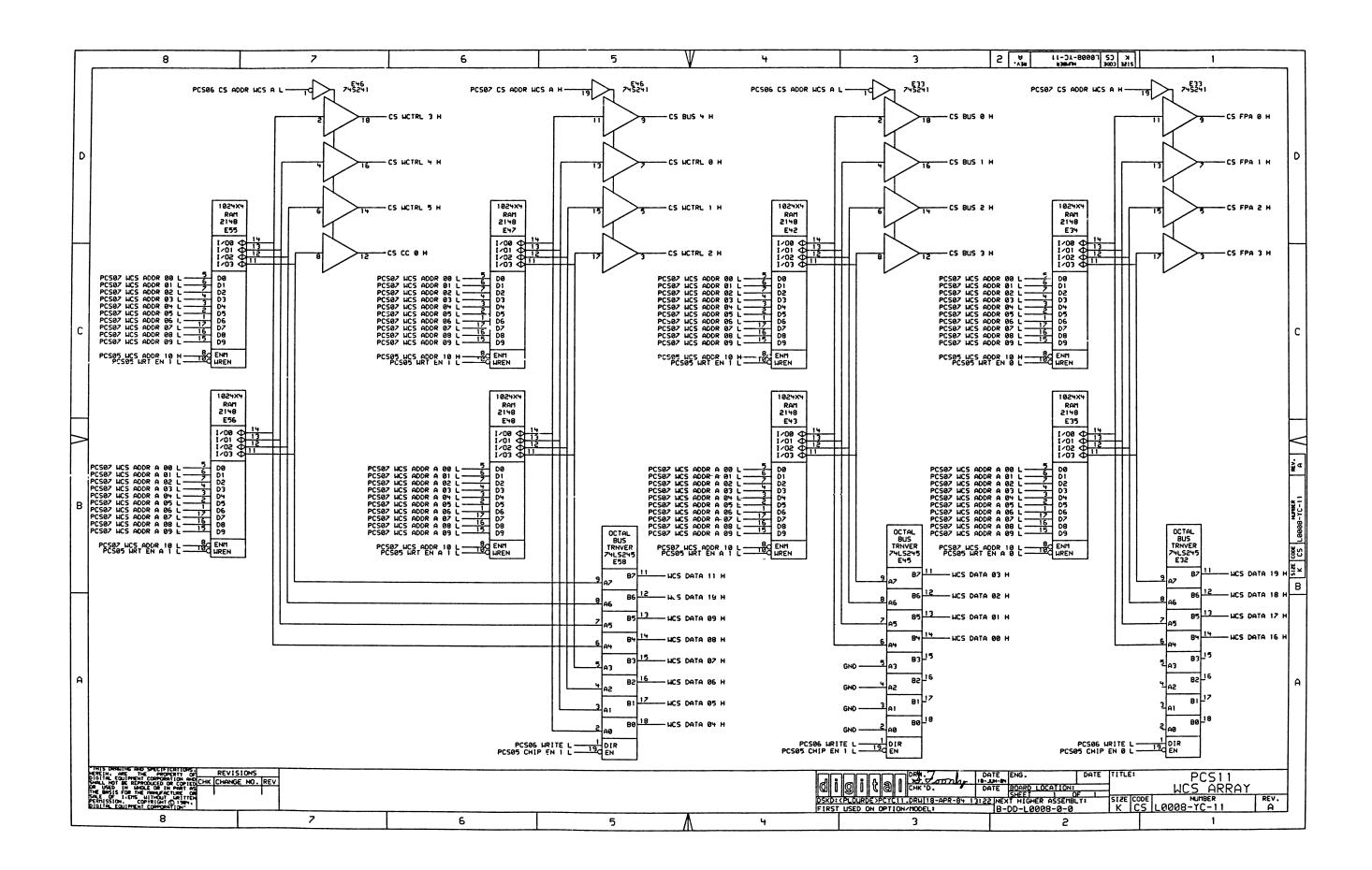


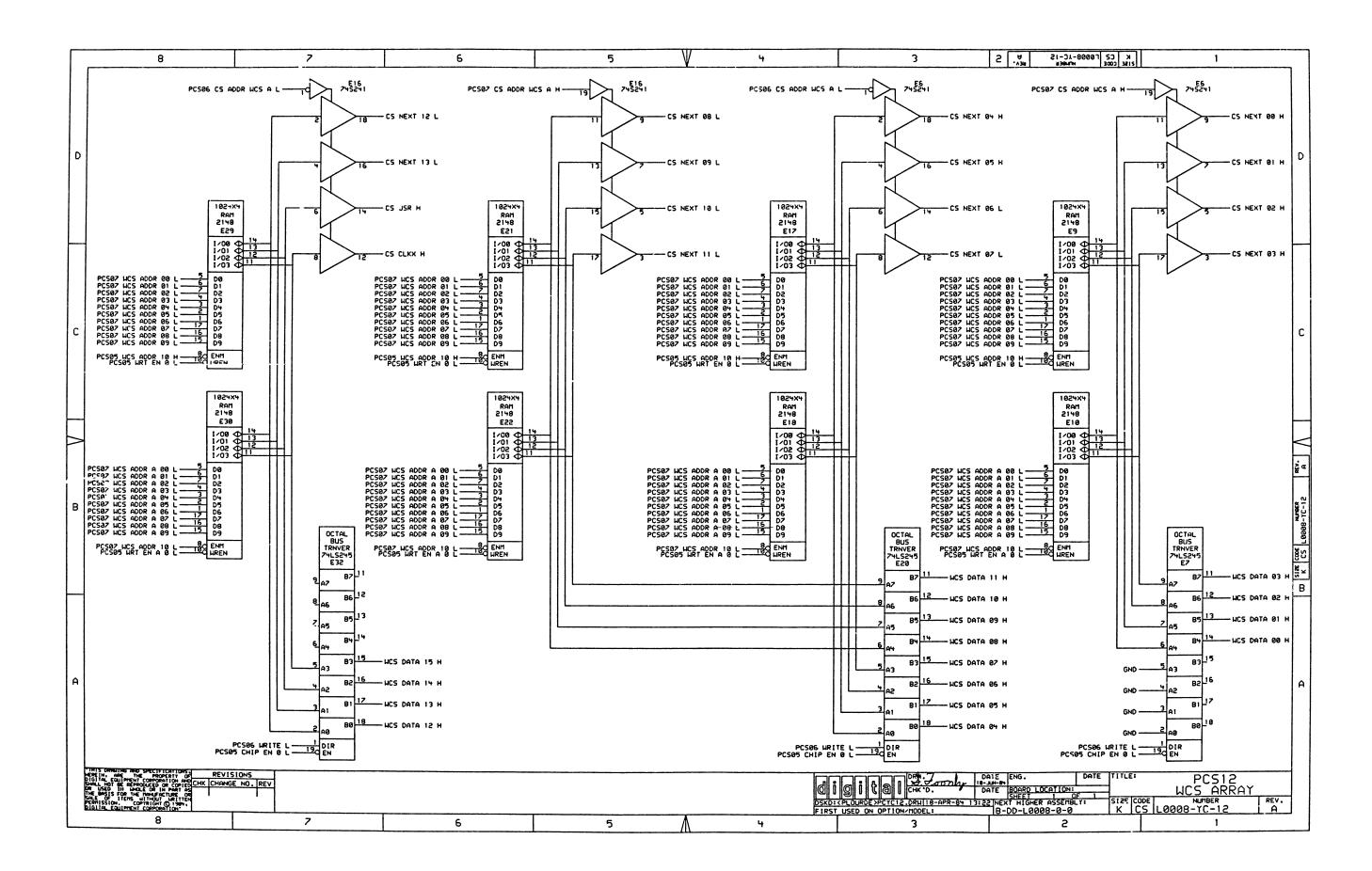


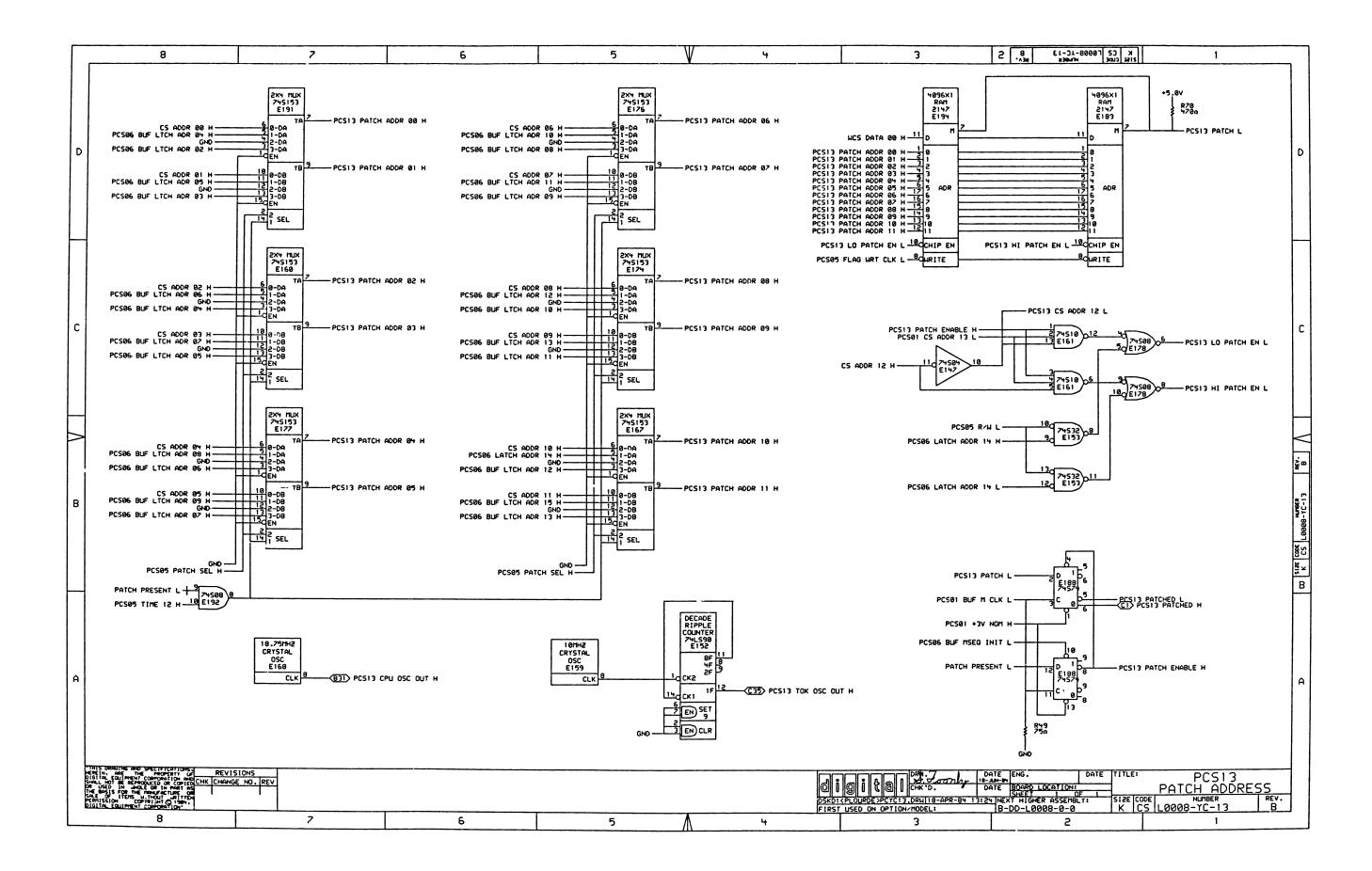


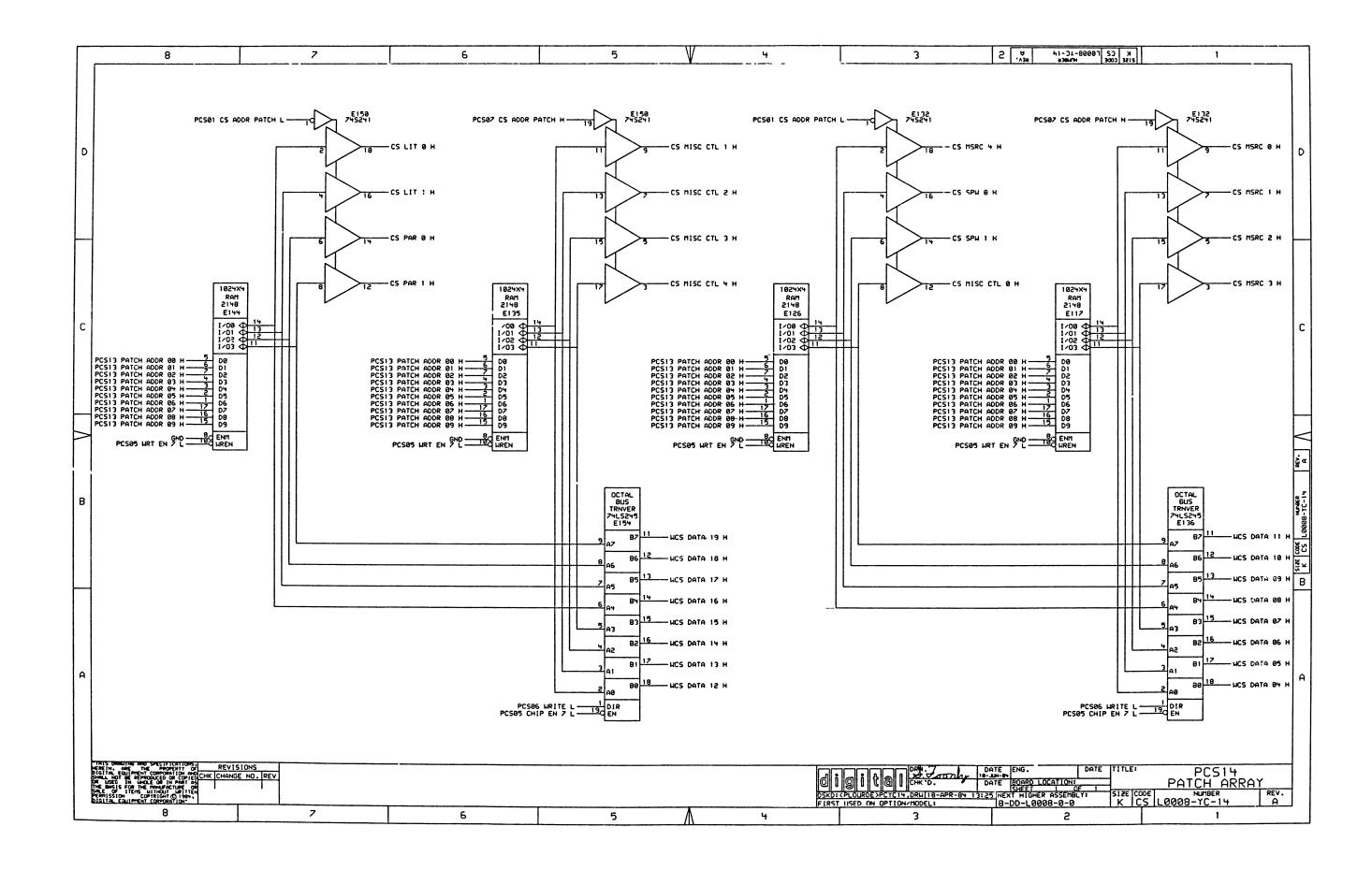


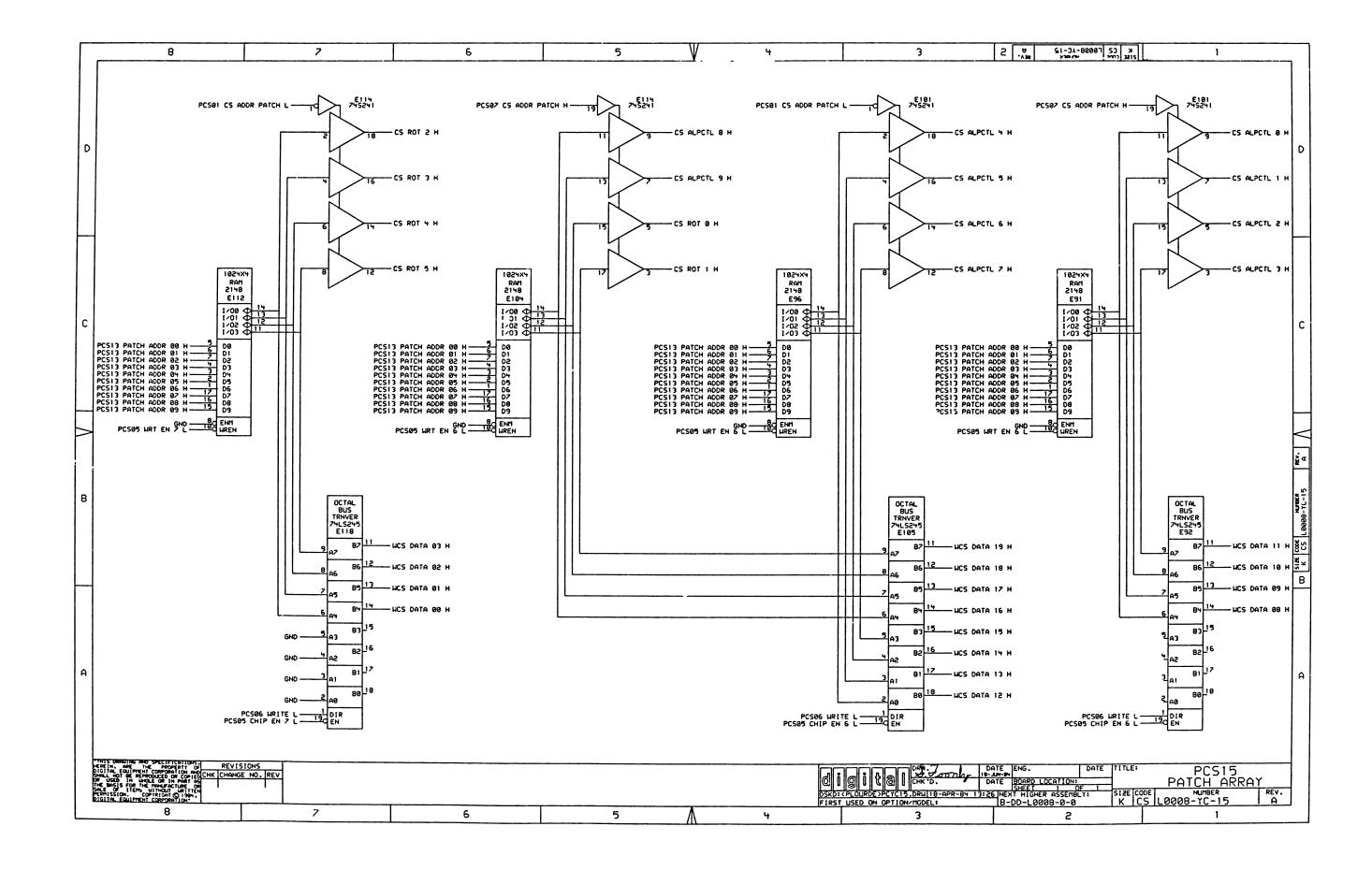


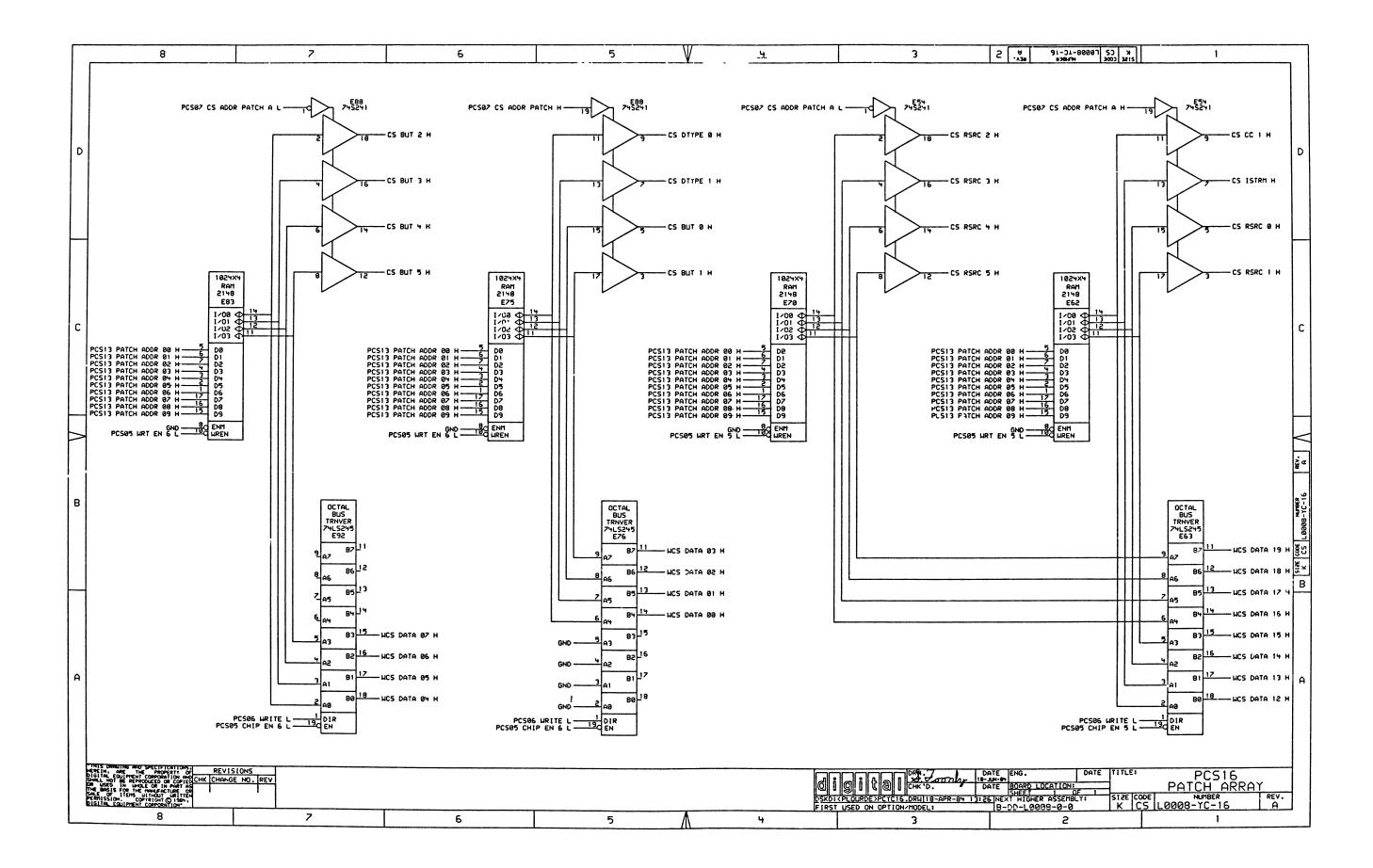


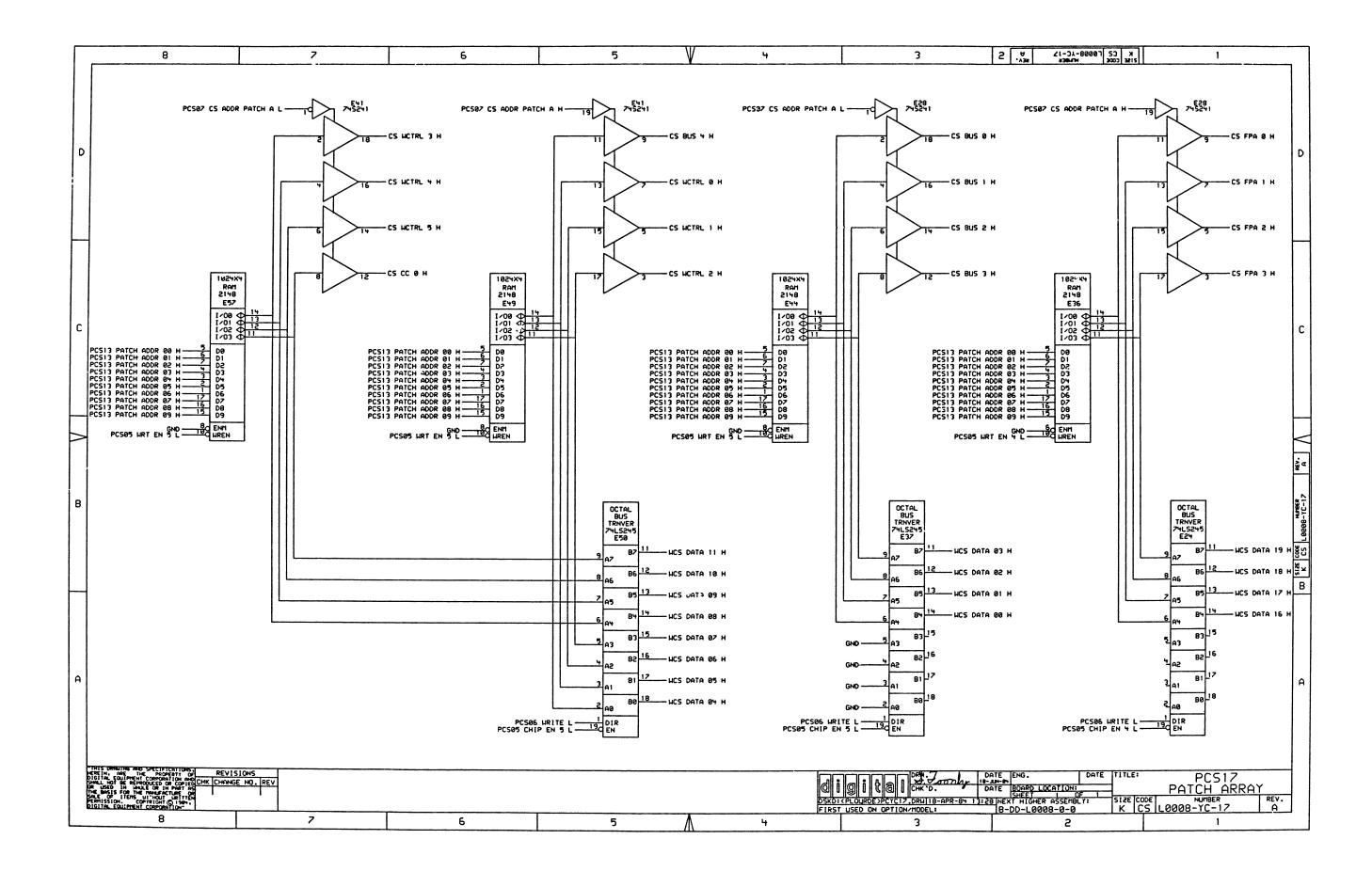


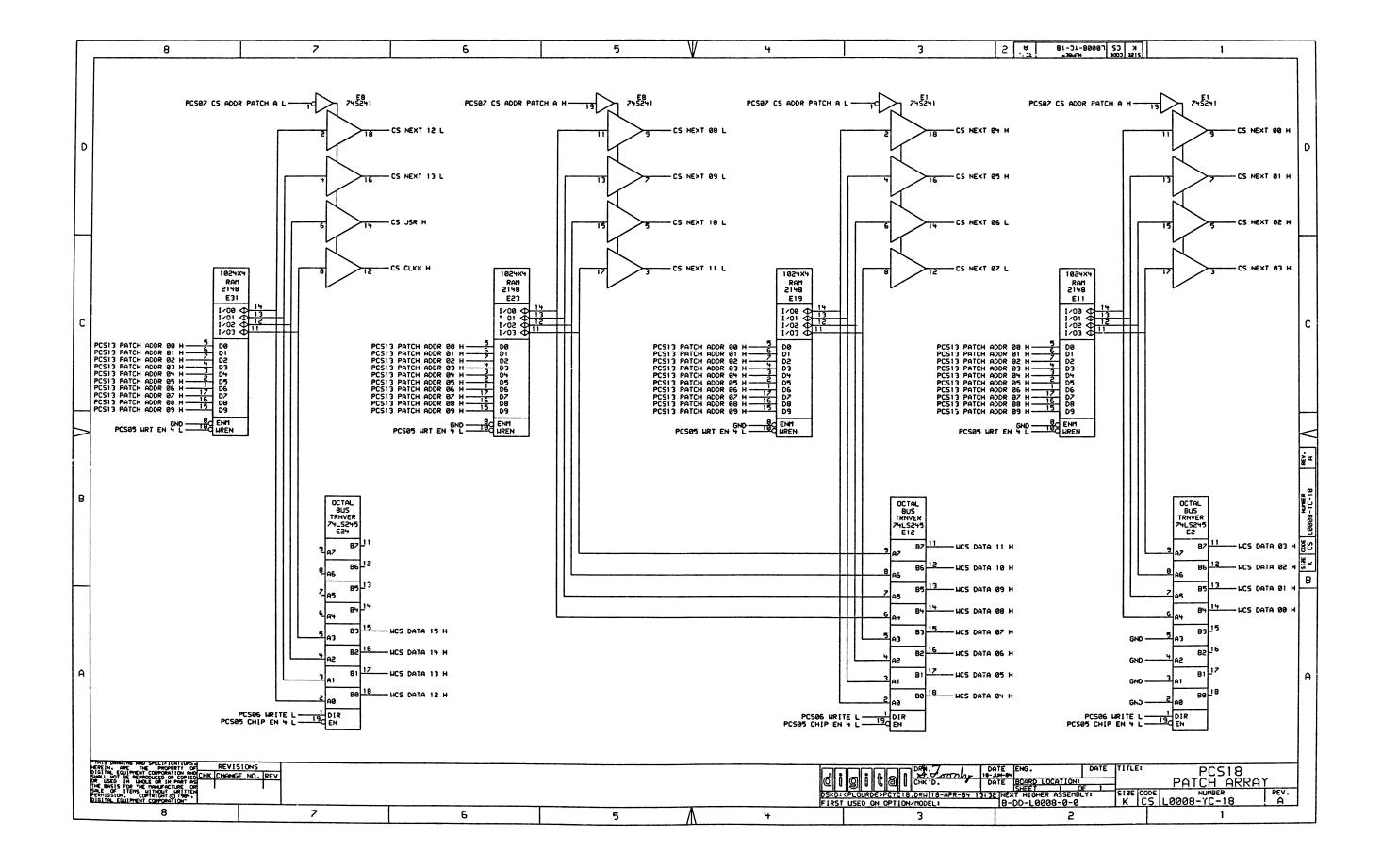


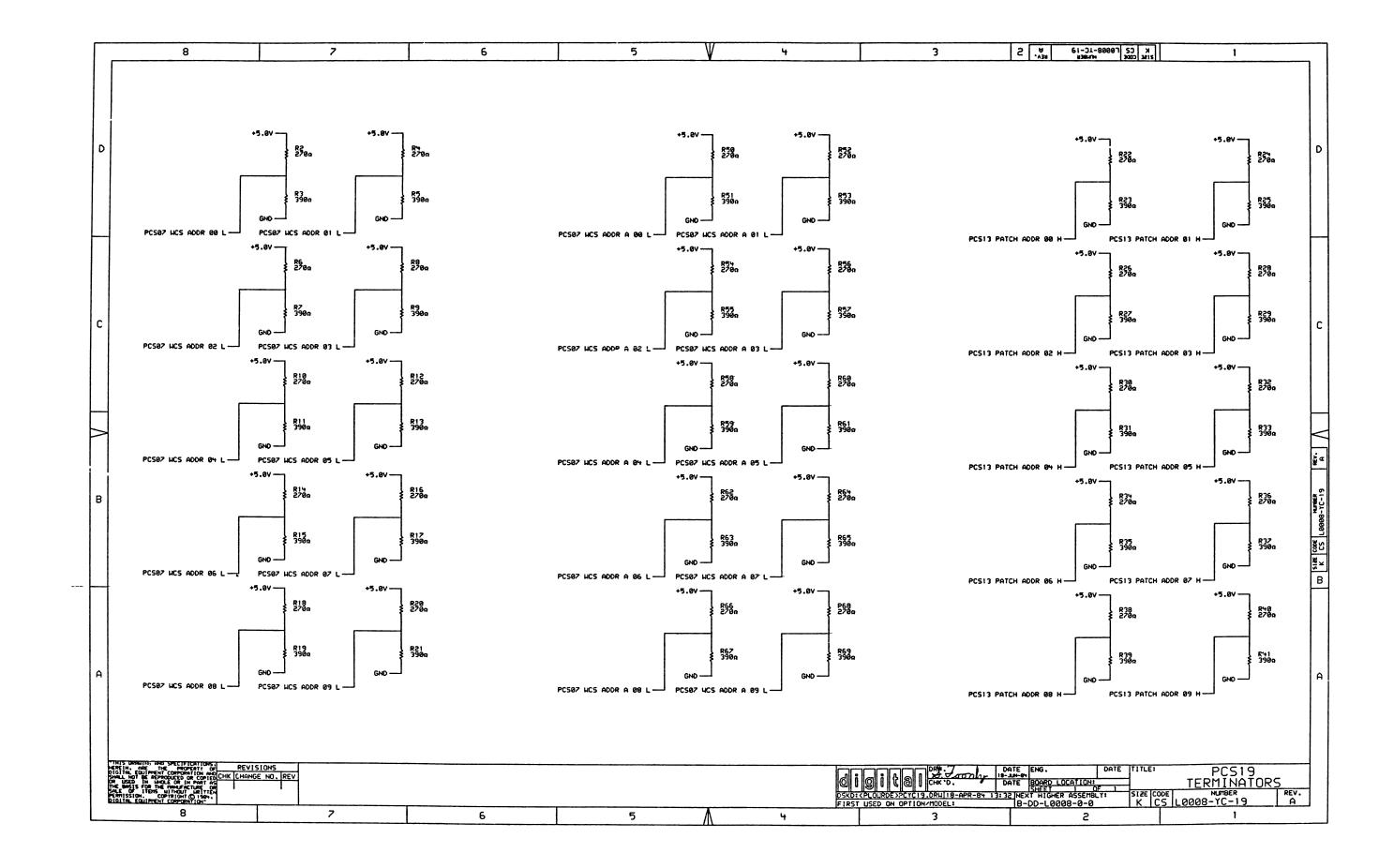


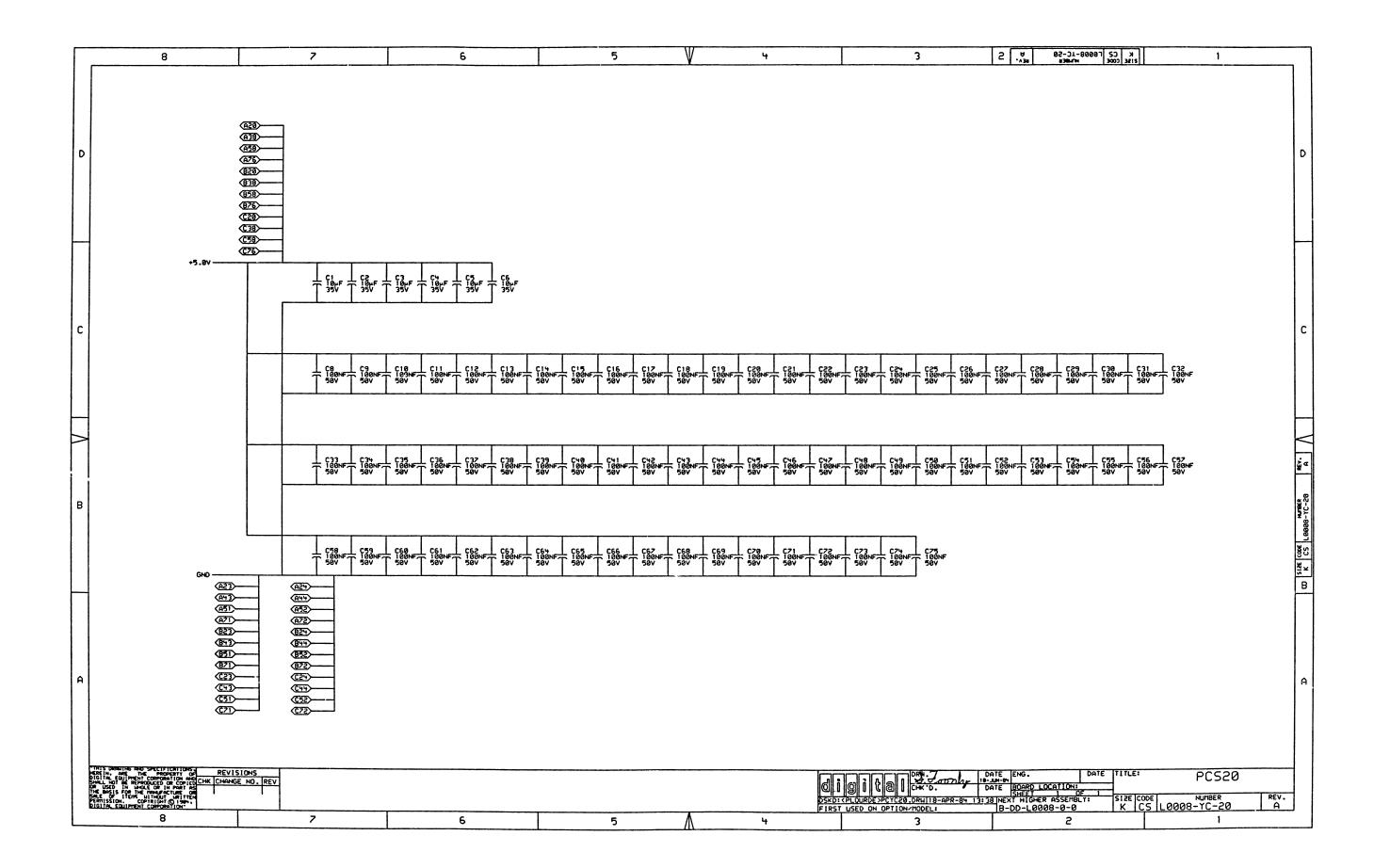








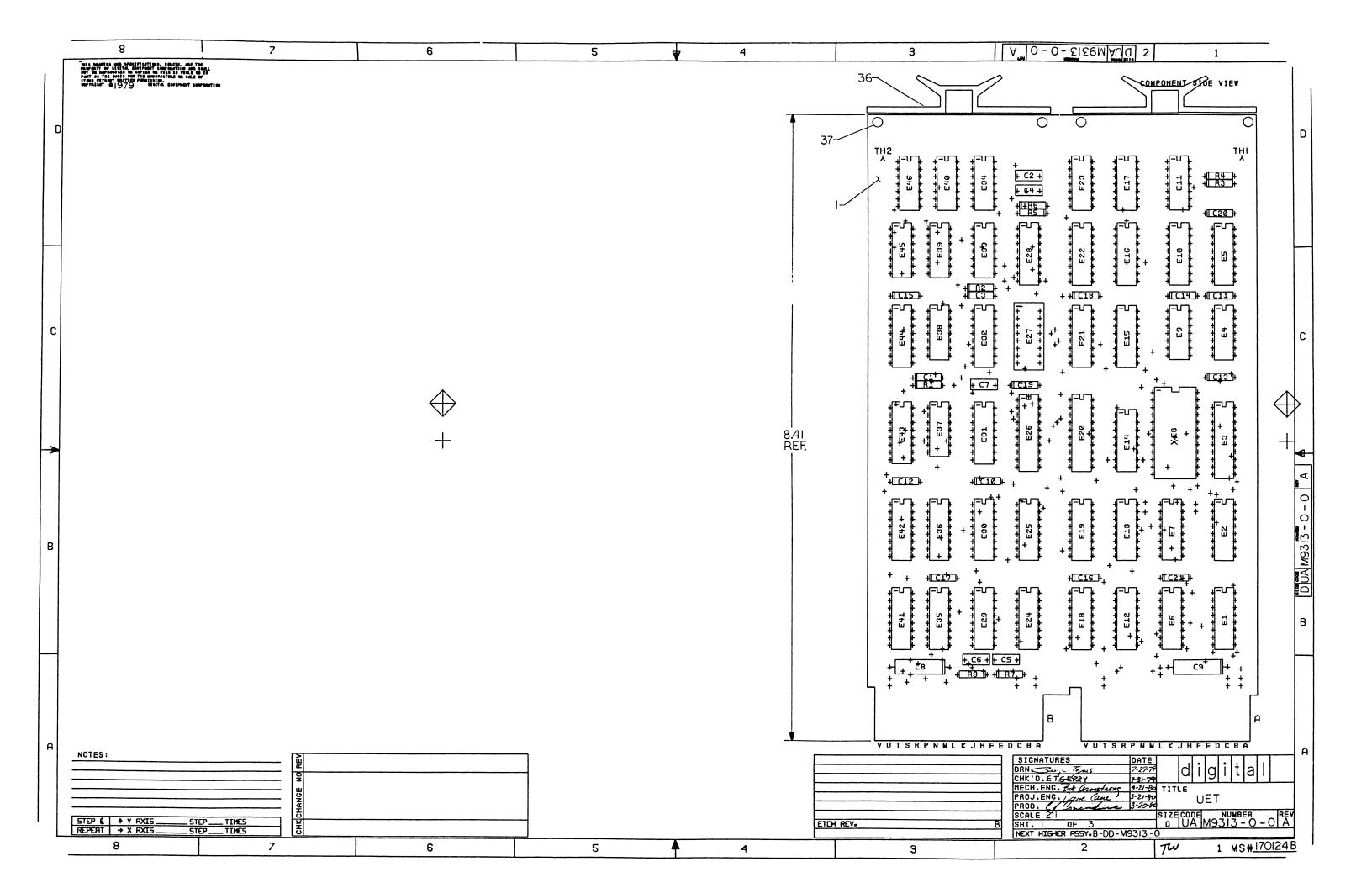


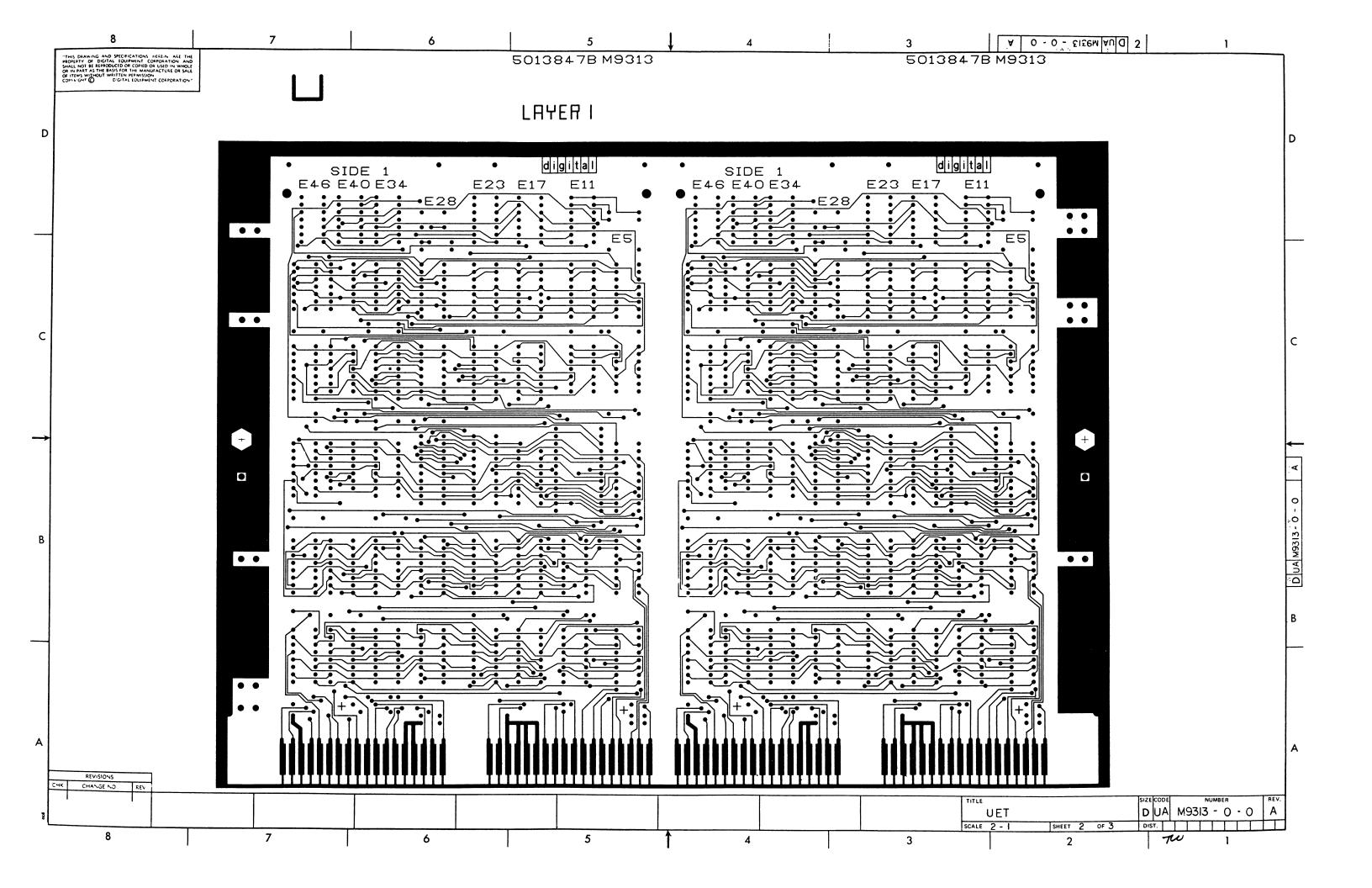


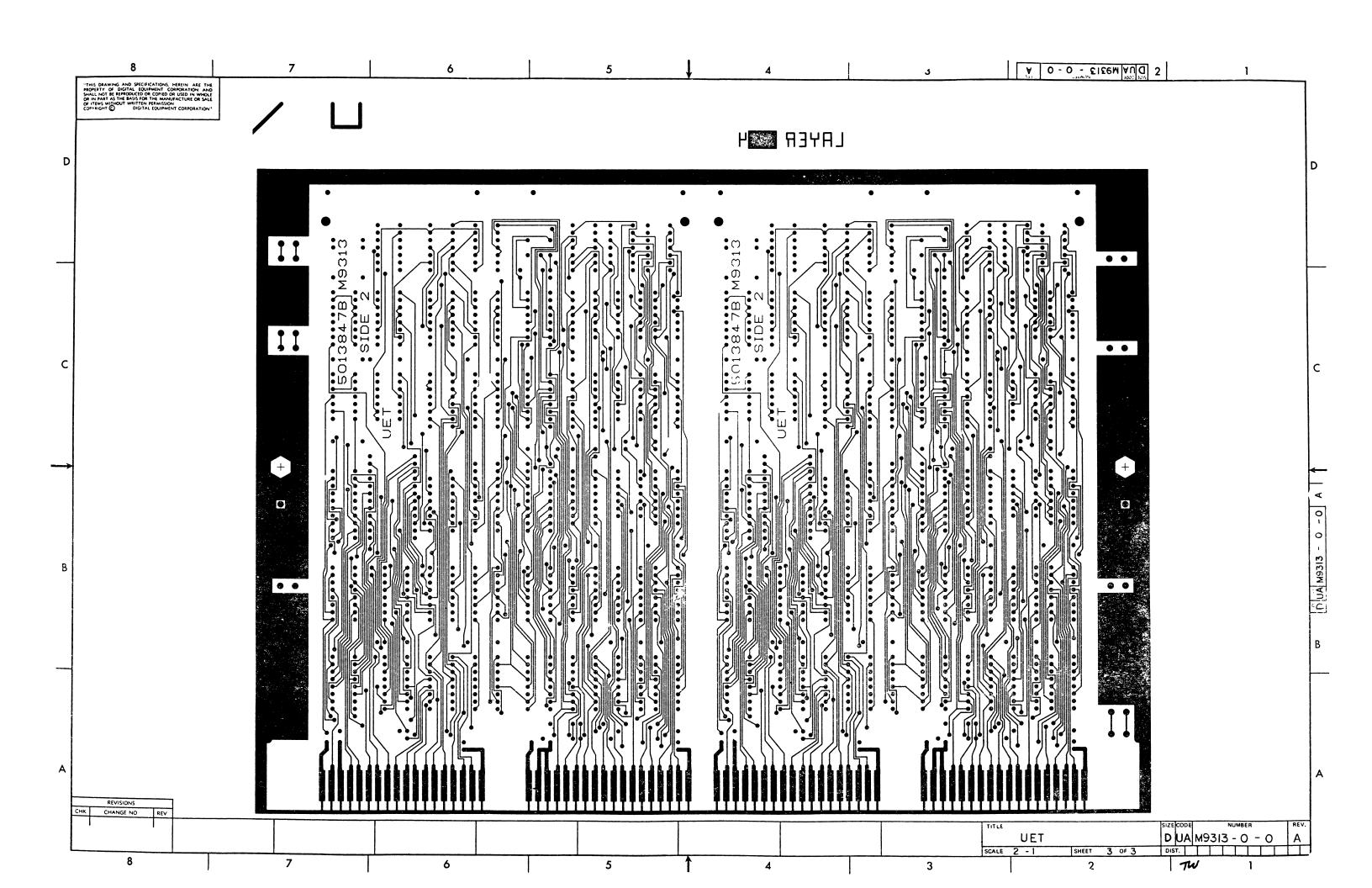
REV. B DD size code DRAWING NO. OF SHTS. PART NO. **DESCRIPTION REVISIONS** PART REVISION A B CI M9313 ABC B-DD-M9313-0 **UET DRAWING DIRECTORY** D-UA-M9313-0-0 3 ΙΔ **UET UNIT ASSEMBLY** K-PL-M9313-0-DBP 2 AB **UET PARTS LIST** D-MD-5013847-0-0 5 ΙΔ UET DRILL & ETCH DRAWINGS B 5013847 ETCHED BOARD ВВ K-PC-M9313-0-DBC BB UET P C DESIGN DATA BASE CALDEC I A I A K-CS-M9313-0-DBS UET DESIGN DATA BASE SUDS I A I A D-CS-M9313-0-1 DATA PATH (7:0) D-CS-M9313-0-2 1 **DATA PATH (15:8)** AAAA ΙΑΙΔ D-CS-M9313-0-3 ADDRESS SELECTION ΑΑΑ D-CS-M9313-0-4 UNIBUS CONTROL lΔ D-CS-M9313-0-5 INTERRUPT CONTROL ΑΙΔ D-CS-M9313-0-6 UNIBUS TERMINATION AAA D-CS-M9313-0-7 FORWARD REFERENCE D-CS-M9313-0-8 FORWARD REFERENCE **NOTES:** <u>س</u> ا ں REVISIONS DATE CHG NO. TW001 TW002 *CONTROL SOURCE IS THE SUDS DATA BASE NO CONTROLLED PAPER ORIGINALS EXIST. 1/84 DRN. TITLE **USED ON OPTION/MODEL** "THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PRO-M. FUNARO PERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL 11/750 CHK'D UET NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN J. CASEY PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF NUMBER REV. SIZE | CODE ENG. ITEMS WITHOUT WRITTEN PERMISSION. B DD R. ARMSTRONG С M9313-0 COPYRIGHT® 1981 DIGITAL EQUIPMENT CORPORATION PROD. J. CONSIDINE SHEET 1 OF 1

M9313-0

NUMBER







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LINE ITEM TOP DOCUMENT	MII PART NUMBER RE		QTY PER VARIATION	JN REFERENCE DESIGNATOR
		VARIATION REVISION LEVEL:	C1	
1 1	5013847-00	VET	1	
2 2	1215006-06	SKT, IC 24PIN DIP TIN SOLD	1	XE8
3 3	1300005-04	R NETWORK 15-470 5.0 % 16PIN	1	E27
4 4	1300202-00	47.0 .25 W 5.0 % CF	1	R2
5 5	1300229-00	100.0 .25 W 5.0 % CF	3	R1,R3,R4
5 5 6 6 7 7	1312628-00	R NETWORK 14-176.5 14-375 16PIN	2	E2,E42
	1312628-01	R NETWORK 14-176.5 11-375 16PIN	2	E12,E29
8 8 9 9	1910389-00	DEC 7314 NOR GATE-SINGLE 7IN,	1	E37
	1909705-00	DEC 8881 NAND GATE-QUAD 2IN 0	1	E9
10 10	1910436-00	DEC 74123 ONE SHOT-DUAL, RETRIG	1	E28
11 11	1911469-00	DEC 8640 RECEIVER, BUS, QUAD, U	1	E4
12 12	1911579-00	8641 TRANSCEIVER, BUS, QUA	10	E1,E7,E18,E19,E30,E31,E35,E36,
			CONT	E41,E44
13 13	1911983-00	74S133 NAND GATE-POSITIVE 1	1	E43
14 14	1912799-00	LSOO NAND-GATE-QUAD 2IN,P	1	E40
15 15	1912803-00	LSO4 INVERTER GATE, HEX	2	E17,E39
16 16	1910535-00	74S05 INVERTER GATE-HEX 1	1	E33
17 17	1912805-00	LSO8 AND GATE-QUAD 2IN,PO	1	E46
18 18	1912808-00	LS11 AND GATE-TRIPLE 3IN	1	E34
19 19	1912810-00	LS20 NAND GATE-DUAL 4IN	1	E23
20 20	1912824-00	LS74 FF-D DUAL, EDGE TRIGG	2	E38,E45
21 21	1912853-00	LS175 FF-D QUAD	1	E21
22 22	1914214-00	LS374 FF-D OCTAL EDGE TRIG	2 5	E3,E26
23 23	1914438-00	DC 013 UNIBUS INTERRRUPT-BIP	5	E5,E10,E15,E16,E22
24 24	1914845-00	2918 FF-D QUAD TRI-STATE	5	E6,E13,E14,E24,E25
25 25	23272A1-00	A1-03, A1-04, A1-05	1	E32
26 26	1000055-00	2200.0 MMF 250V 20% Y5S DISC	2	C2,C4
27 27	1000043-00	1000.0 MMF 250V 20% Y5F DISC	2	C5,C6
28 28 29 29	1001610-01	.01 MFD50/100V +80-20% DISC	7	C7
29 29	1611243-00	DELAY=25-250NS,10TAPS RCL#L-183	1	E11
! REVISION HISTORY	!BASIC PART NO: M93	3 ! !	<u>!</u>	!

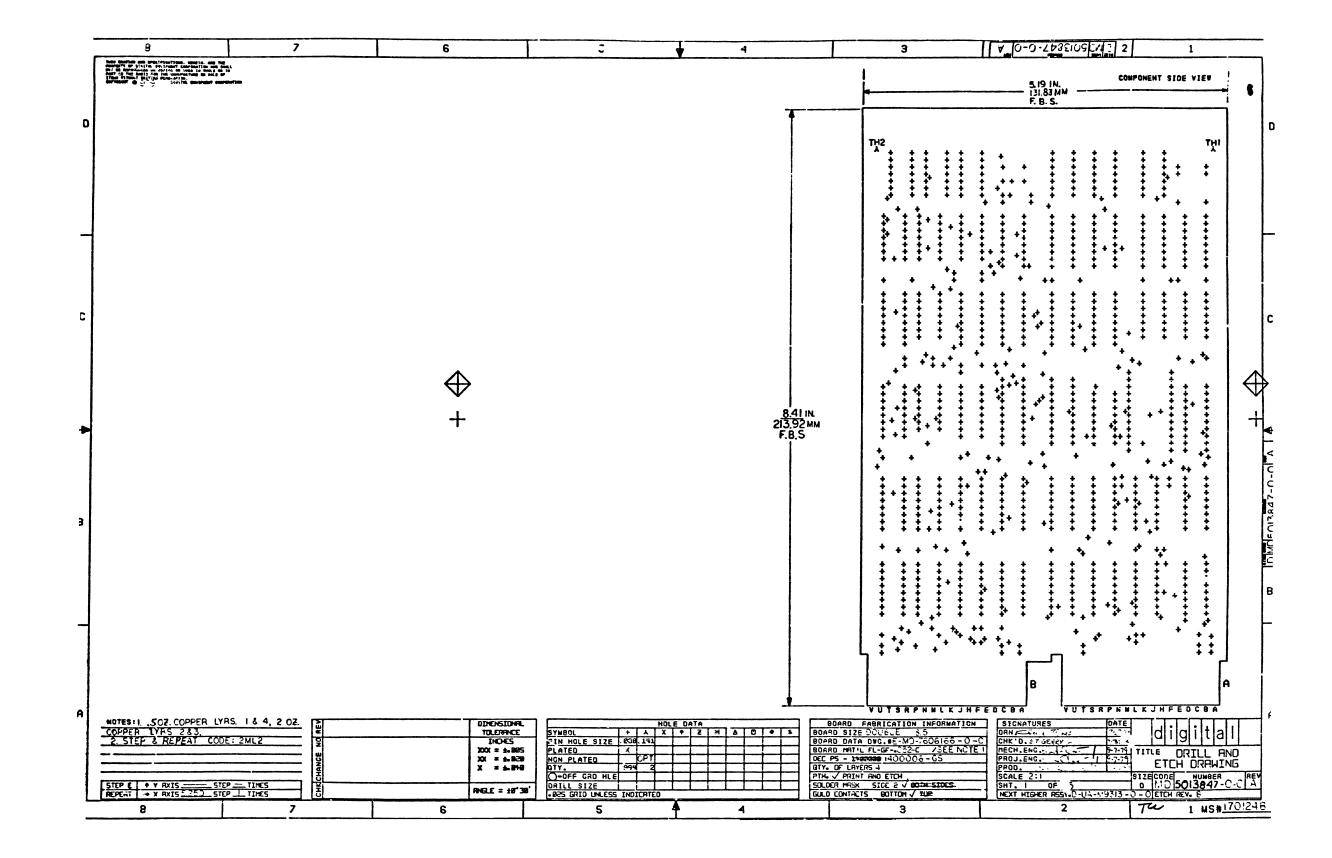
! REVISION HISTORY		!BASIC PART NO: M9313	! !DRN:	M.FUNARO	! !DATE:	22-MAY-79	! ! D	ī	G	ī	Т	Α	L !	
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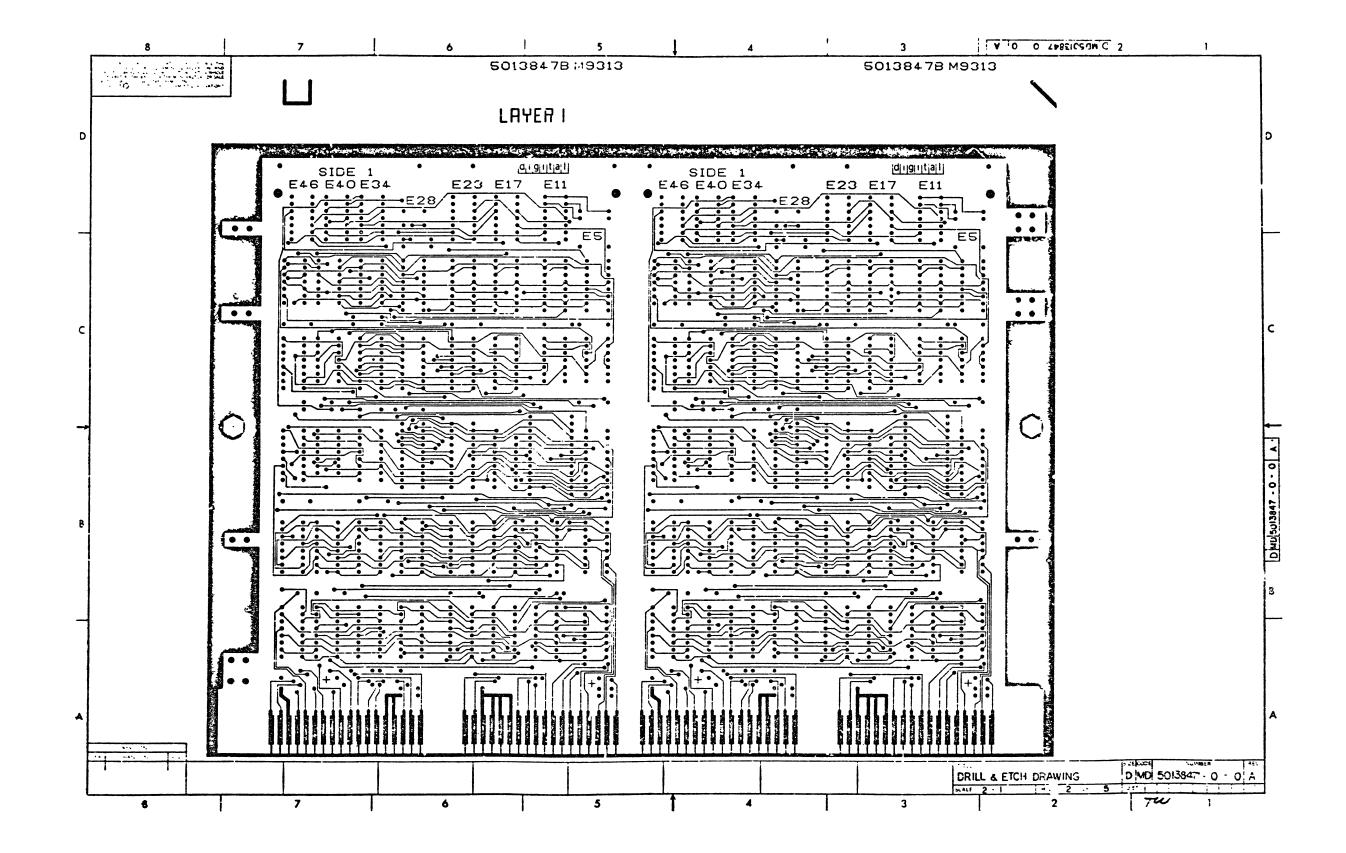
"THIS DRAWING AND THE SPECIFICATIONS CONTAINED HEREIN ARE CONFIDENTIAL AND PROPRIETARY. THEY ARE THE PROPERTY OF DIGITAL !
LEQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE!
OF ITEMS WITHOUT WRITTEN PERMISSION. THIS IS AN UNPUBLISHED WORK PROTECTED UNDER THE FEDERAL COPYRIGHT LAWS."

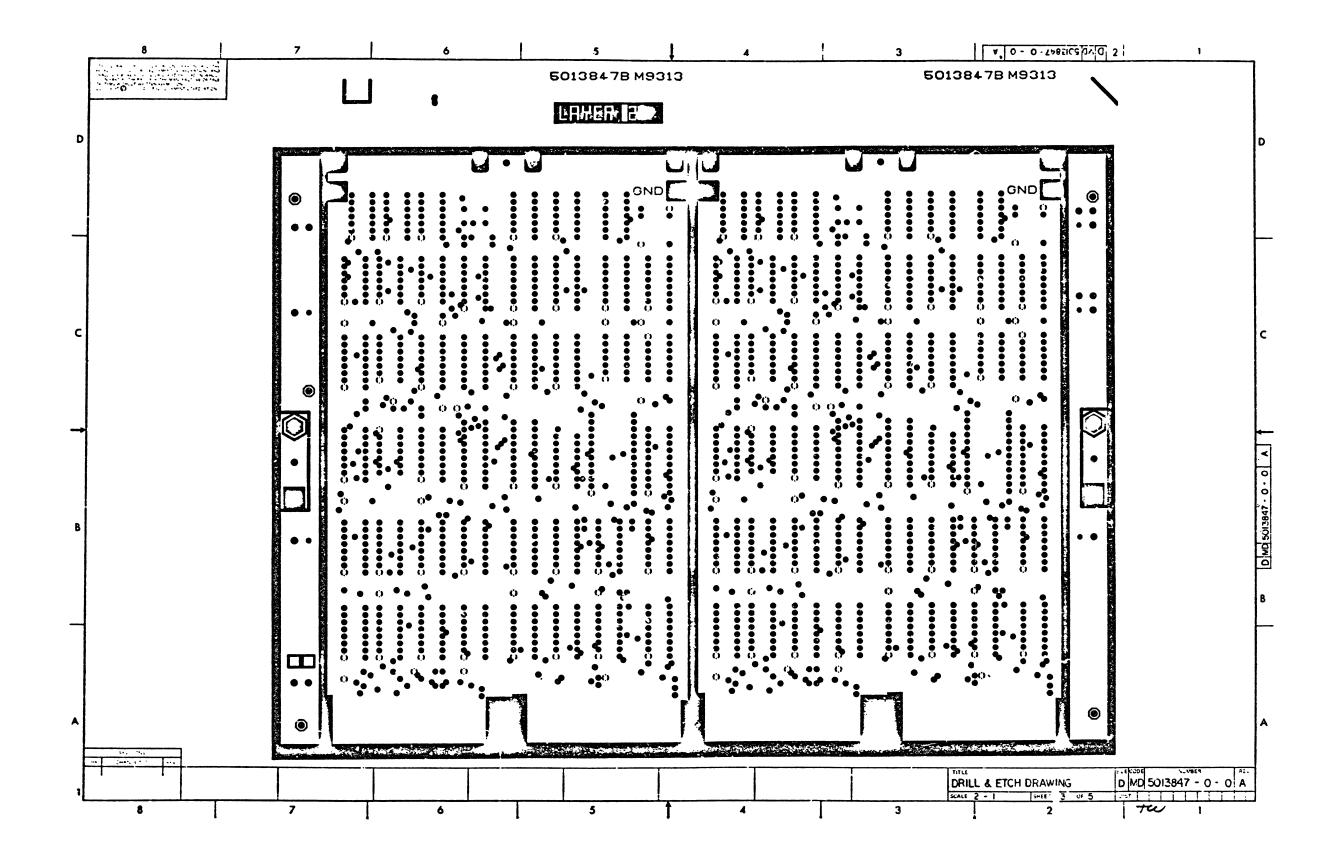
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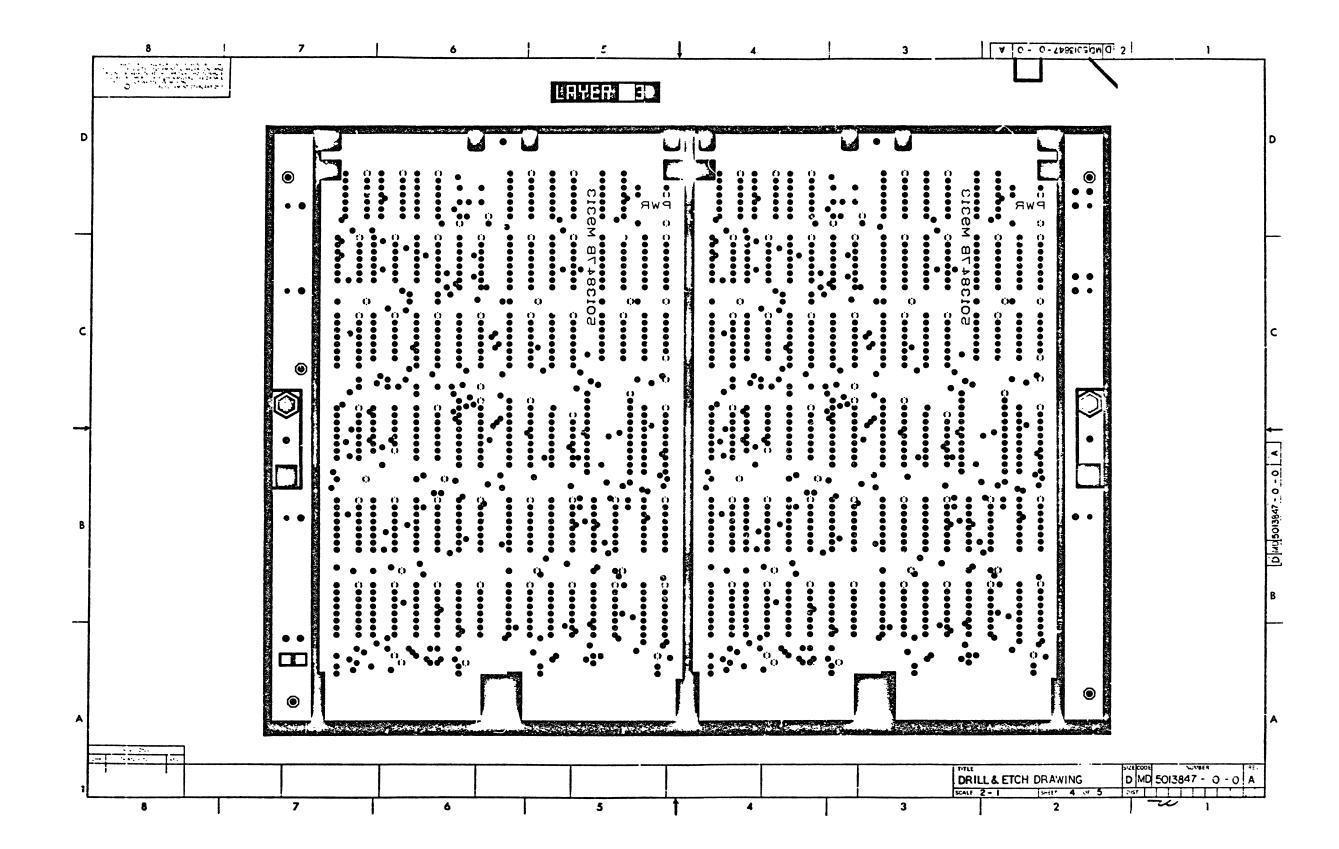
38 NOTE: SOME MODULES WILL HAVE 10-05306 INSTEAD OF 10-12084-01

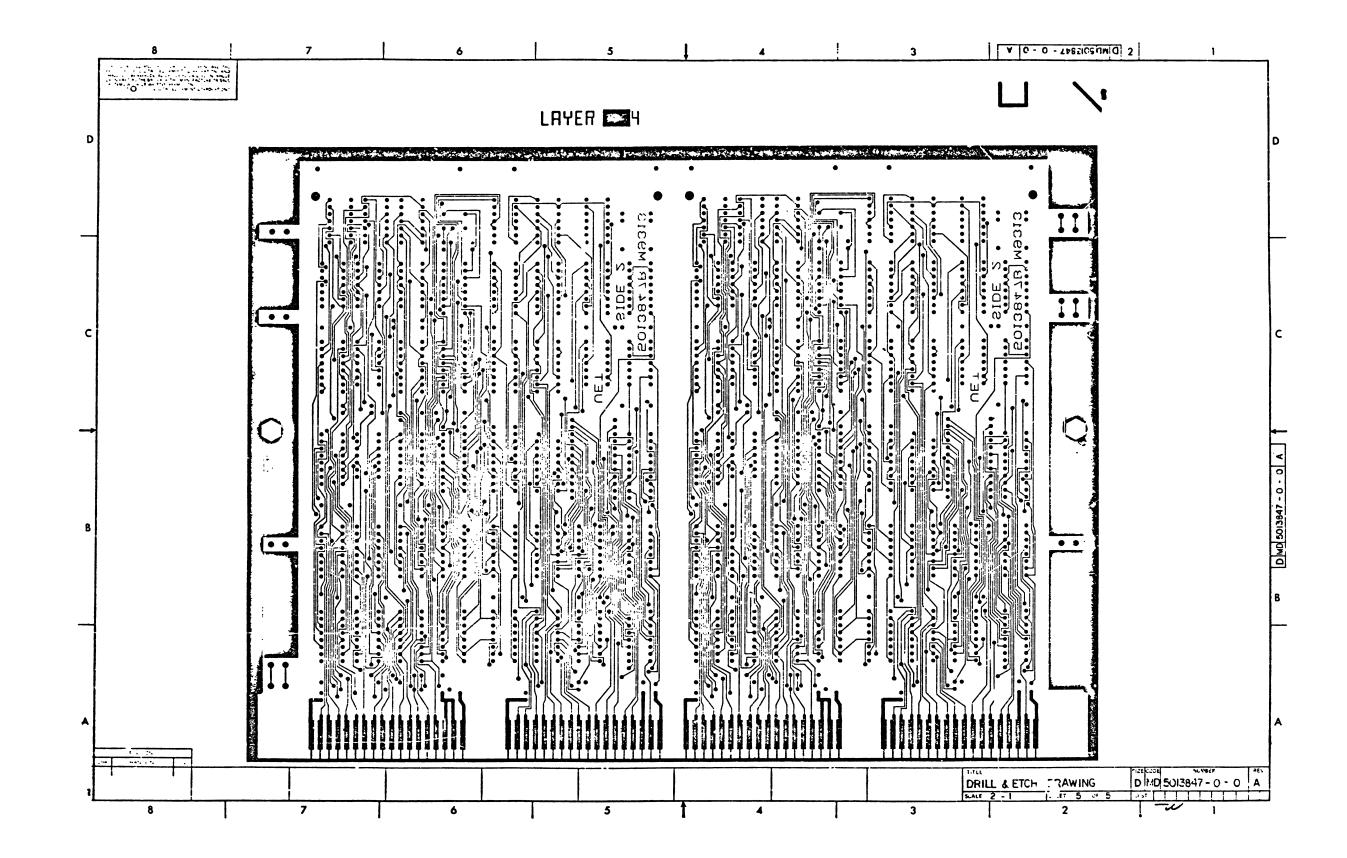
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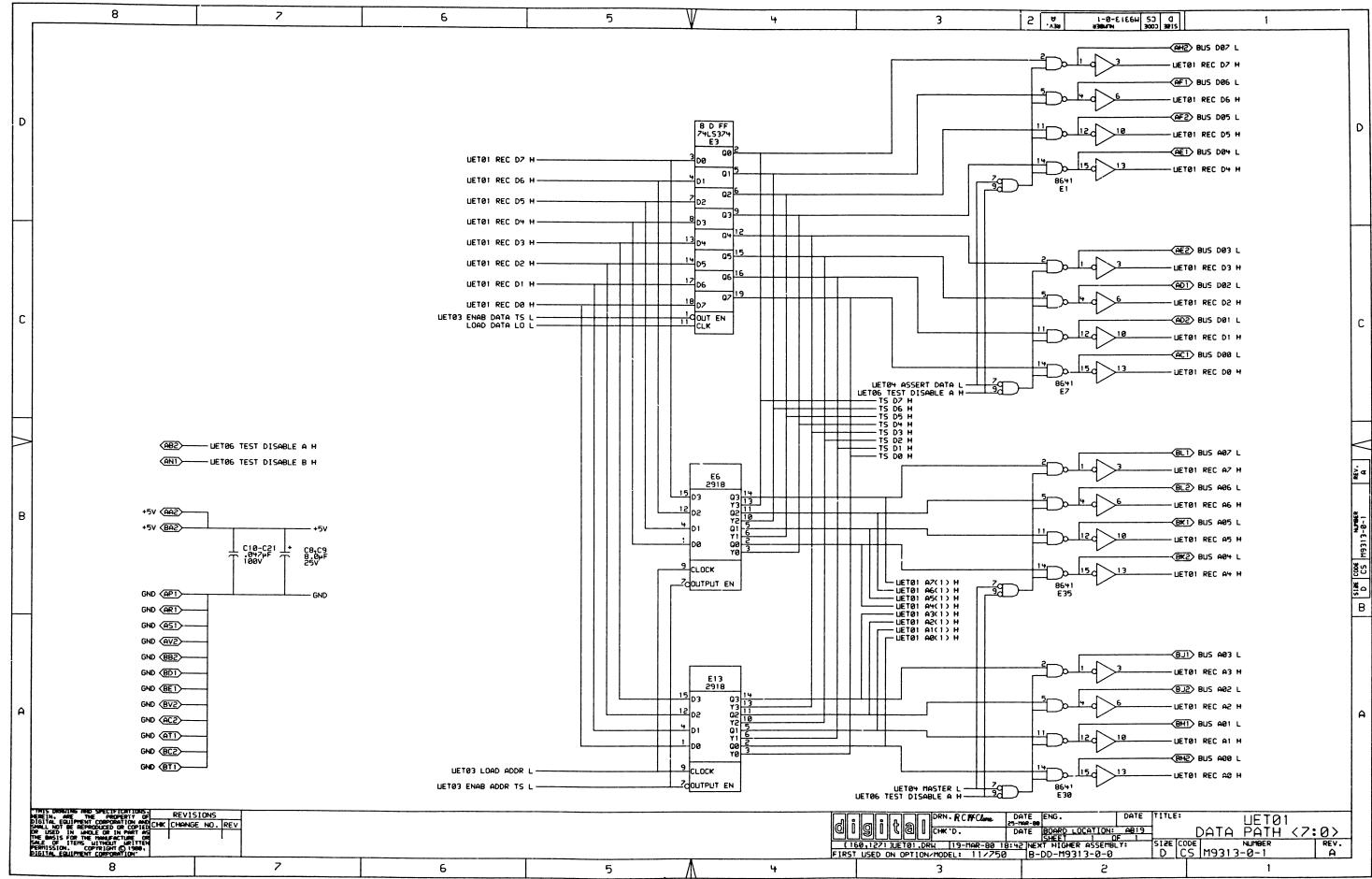


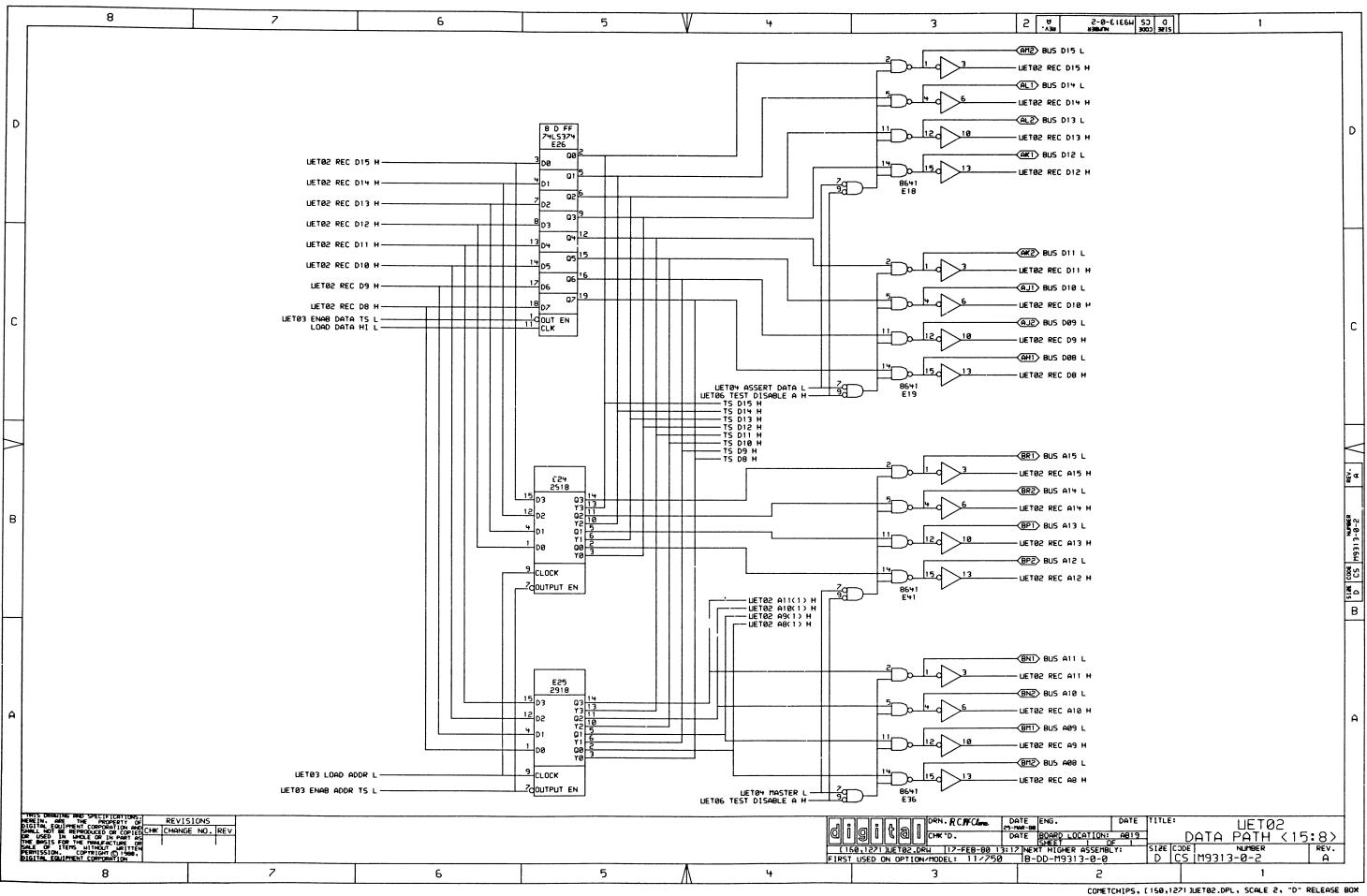


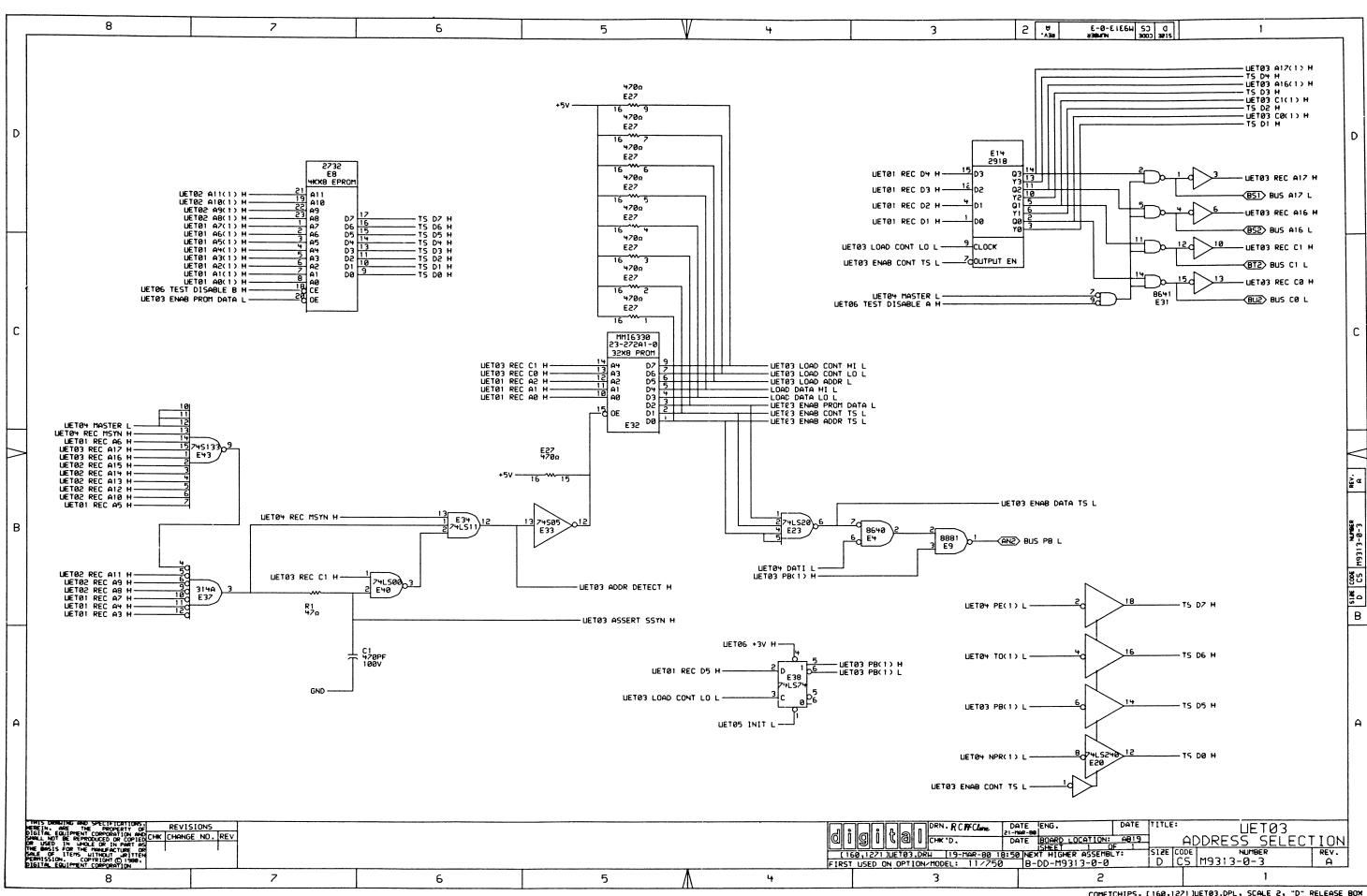


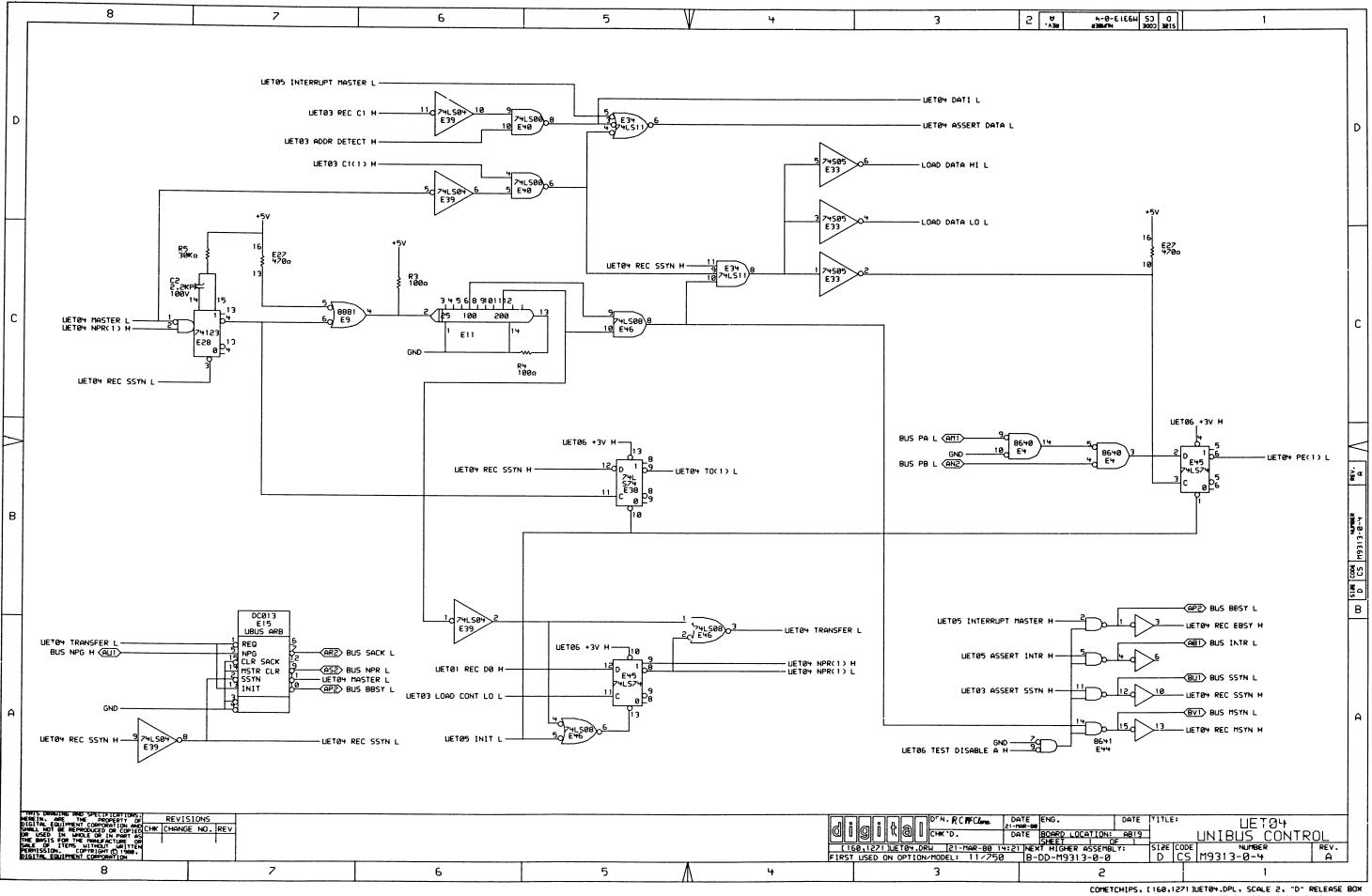


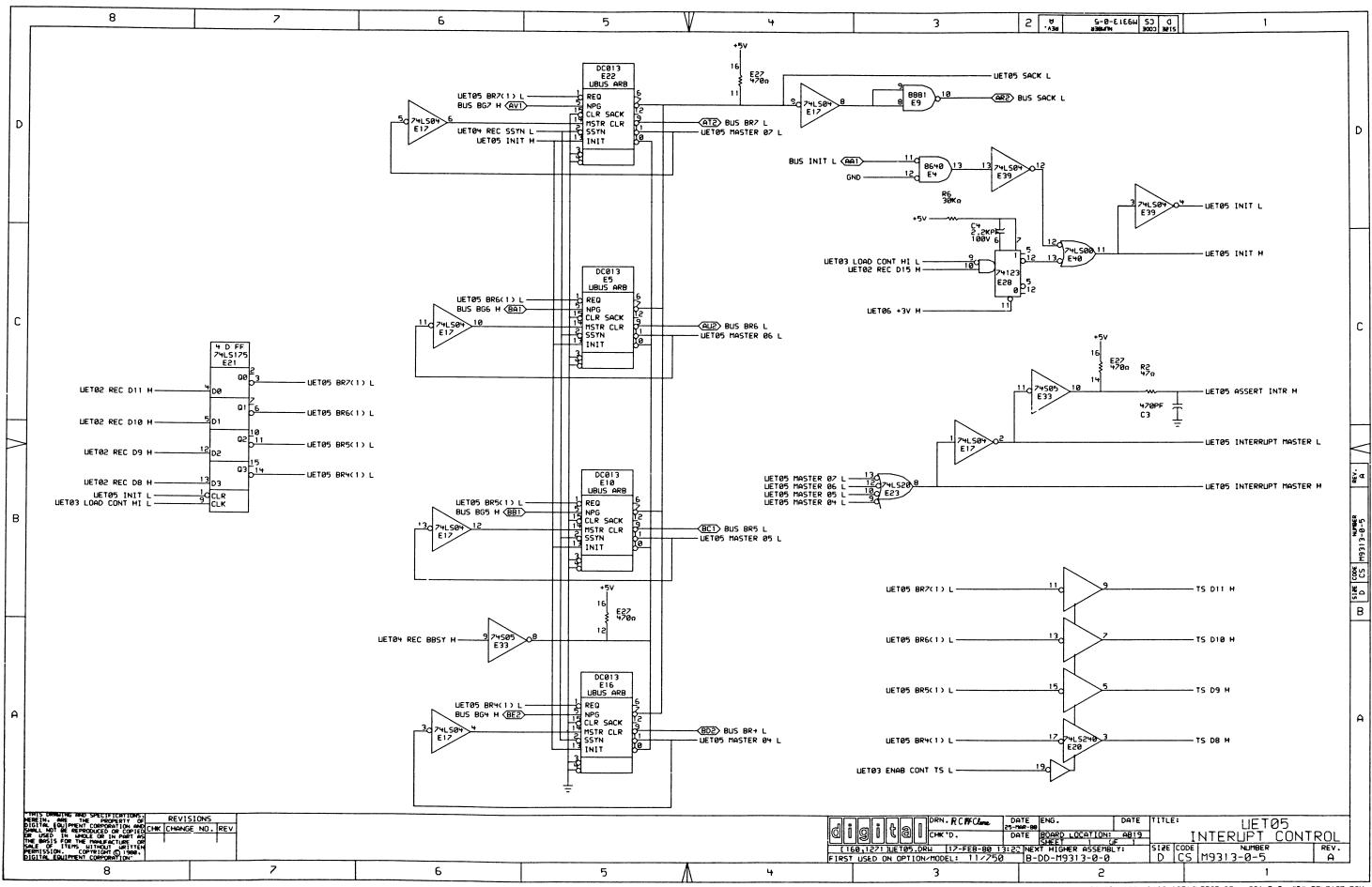


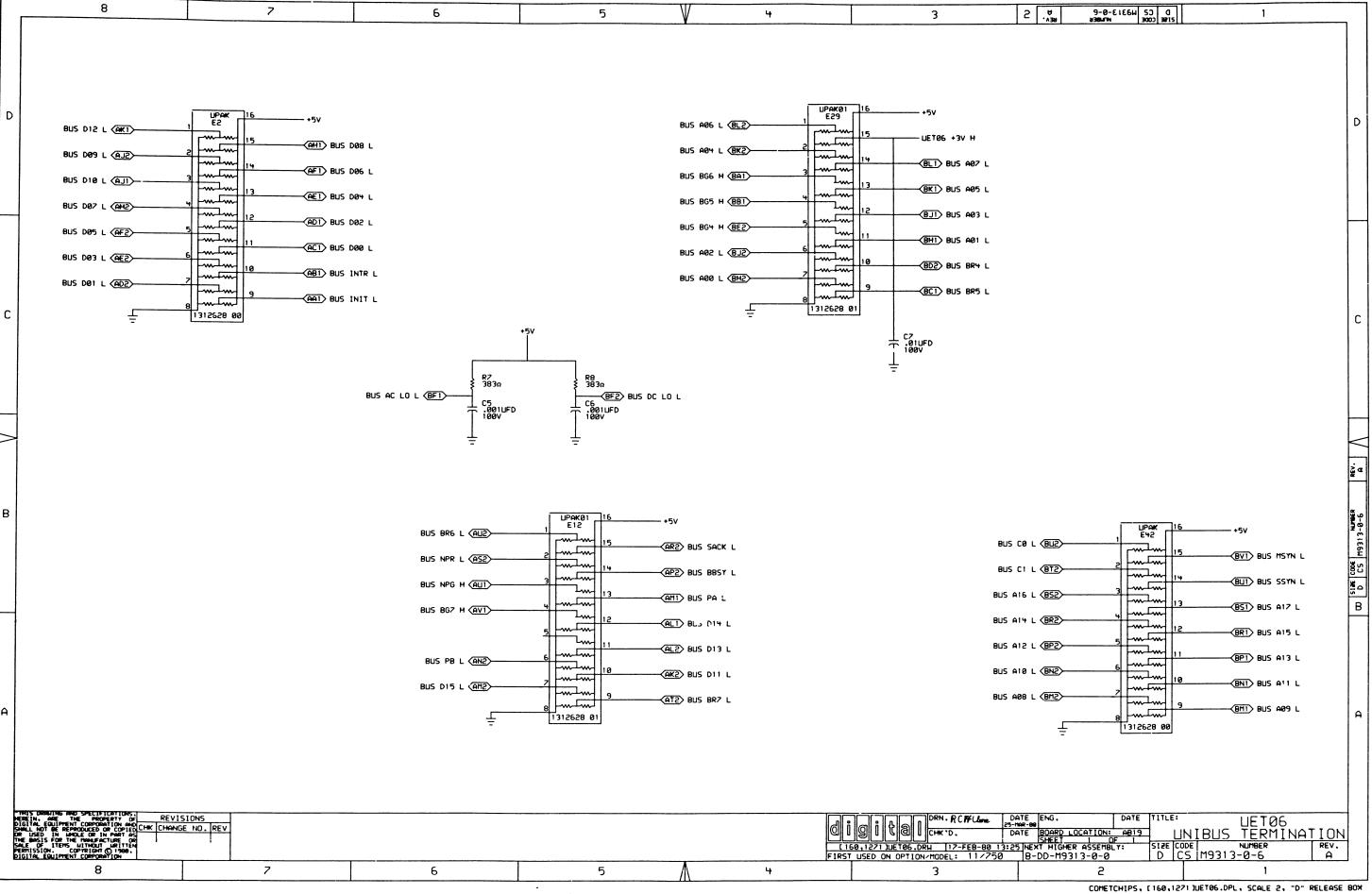












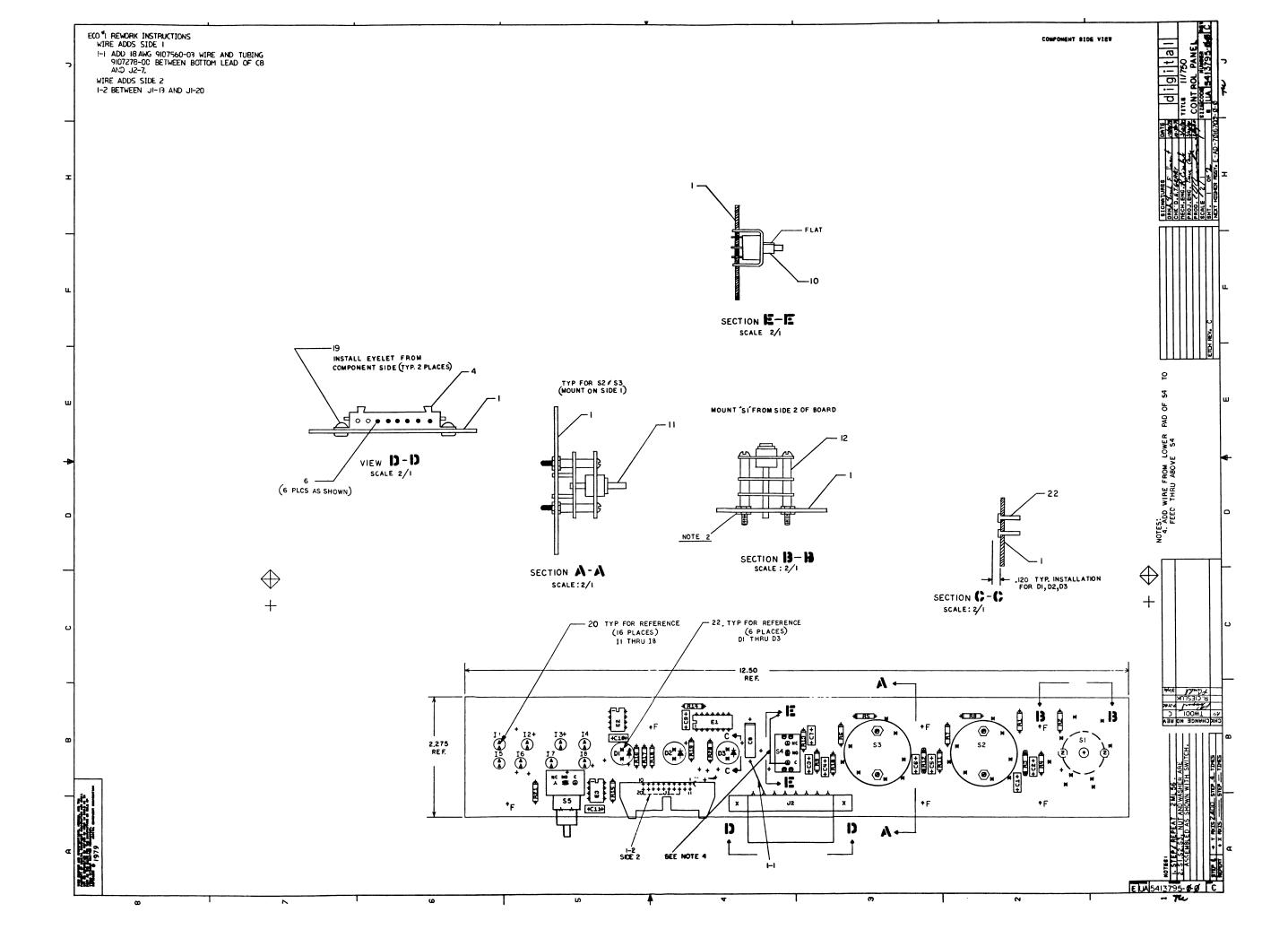
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BUS D09 L 06-01 UET01 PEC AD H 01-03 UET03 PEC CD H 07 BIS D00 L 05-01 PET03 PEC CD H 07 BIS D00 L 06-02 UET03 PEC CD H 01-03 UET03 PEC CD H 01-03 UET03 PEC CD H 01-03 UET03 PEC CD H 01-03 UET03 PEC CD H 01-03 UET03 PEC CD H 01-03 UET03 PEC CD H 01-03 UET03 PEC CD H 01-04 UET03 PEC CD H 01-05 UET03 PEC	BUS BG5 H BUS BG6 H BUS BG7 H BUS BR4 L BUS BR5 L BUS BR6 L BUS BR7 L BUS C0 L	05,06 05,06 06,05 05,06 05,06 05,06 06,05	TS D7 H TS D8 H TS D9 H UET01 A0 (1)H UET01 A1 (1)H UET01 A2 (1)H UET01 A3 (1)H UET01 A4 (1)H	01,03 02,05 02,05 03,01 03,01 03,01 03,01 01,03	LIETØ3 ASSERT SSYN H LIETØ3 CØ (1)H LIETØ3 CØ (1)H LIETØ3 ENAØ ADDR TS L LIETØ3 ENAØ DATA TS L LIETØ3 ENAØ DATA TS L LIETØ3 ENAØ DATA TS L LIETØ3 ENAØ DATA TS L LIETØ3 ENAØ DATA TS L LIETØ3 ENAØ DATA L LIETØ3 LOAD ADDR L	03,84 03 03,84 01,03,82 03,85 01,03,82 03	
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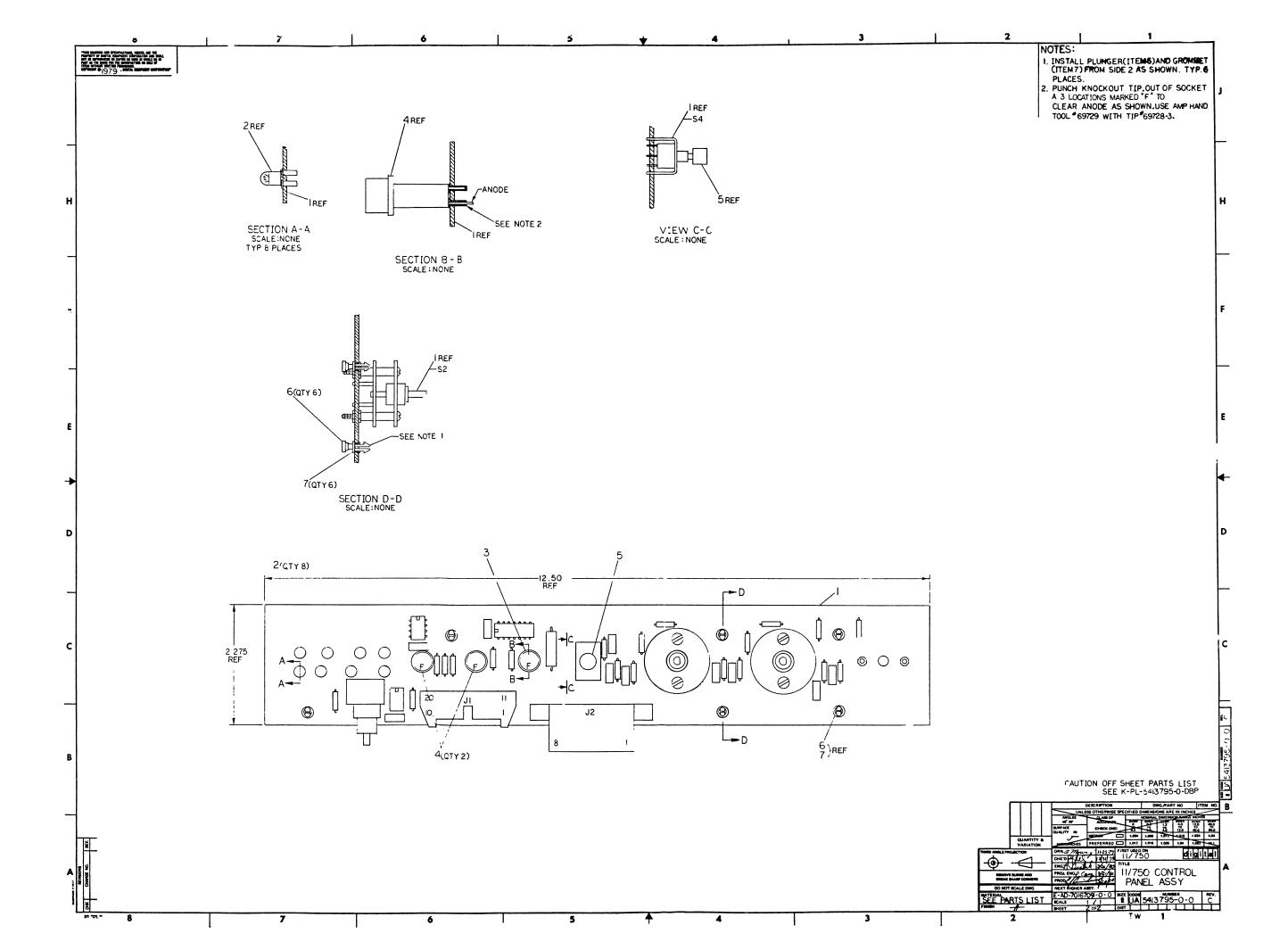
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	UM USED IN MULE UK IN PART AS THE BASIS FOR THE MAMERACTURE OR SALE OF ITEMS MITHOUT MRITTEN PERMISSION. COPPERSON () 1980, DIGITAL EQUIPMENT CORPORATION						(160,127) TUETUS DRH (17-FEB-80 1) FIRST USED ON OPTION/MODEL: 11/750	STANDARYT MICHED ACCEMBLY: SIZE COL	TORWARD REFERENCE DE NUMBER REV. 5 M9313-0-8 A
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B DD size code REV. NUMBER DRAWING NO. OF PART NO. **DESCRIPTION REVISIONS** 5413795 PART MODULE $B \mid C \mid D \mid D1$ BCDE B-DD-5413795-0 11/750 CONTROL PANEL DRAWING DIR. E-UA-5413795-0-0 BCC 2 11/750 CONTROL PANEL UNIT ASSEMBLY K-PL-5413795-0-DBP BCDE 2 11/750 CONTROL PANEL PARTS LIST E-MD-5413794-0-0 BBBBB 3 11/750 CTRL PANEL DRILL & ETCH DWG cccc 5013794 ETCHED BOARD c c c K-PC-5413795-0-DBG 11/750 CTRL PANEL DESIGN DATA BASE в в с E-EC-5413794-0-0 2 11/750 CTRL PANEL ETCH CUT DRAWING D-CS-5413795-0-1 1 всс 11/750 CTRL PANEL CIRCUIT SCHEMATIC **NOTES:** ပြုမျ REVISIONS DATE CHG NO. ALL DOCUMENTATION WAS RELEASED AT REVISION 'B' TW003 TW001 11-81 9-80 5-83 USED ON OPTION/MODEL DRN. TITLE "THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PRO-J. CASEY PERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL 11/750 CHK'D 11/750 CONTROL PANEL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN J. CASEY PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF B DD NUMBER REV. ENG. ITEMS WITHOUT WRITTEN PERMISSION. R. CIESŁUK Ε 5413795-0 COPYRIGHT© 1980 DIGITAL EQUIPMENT CORPORATION J. CONSIDINE SHEET 1 OF 1

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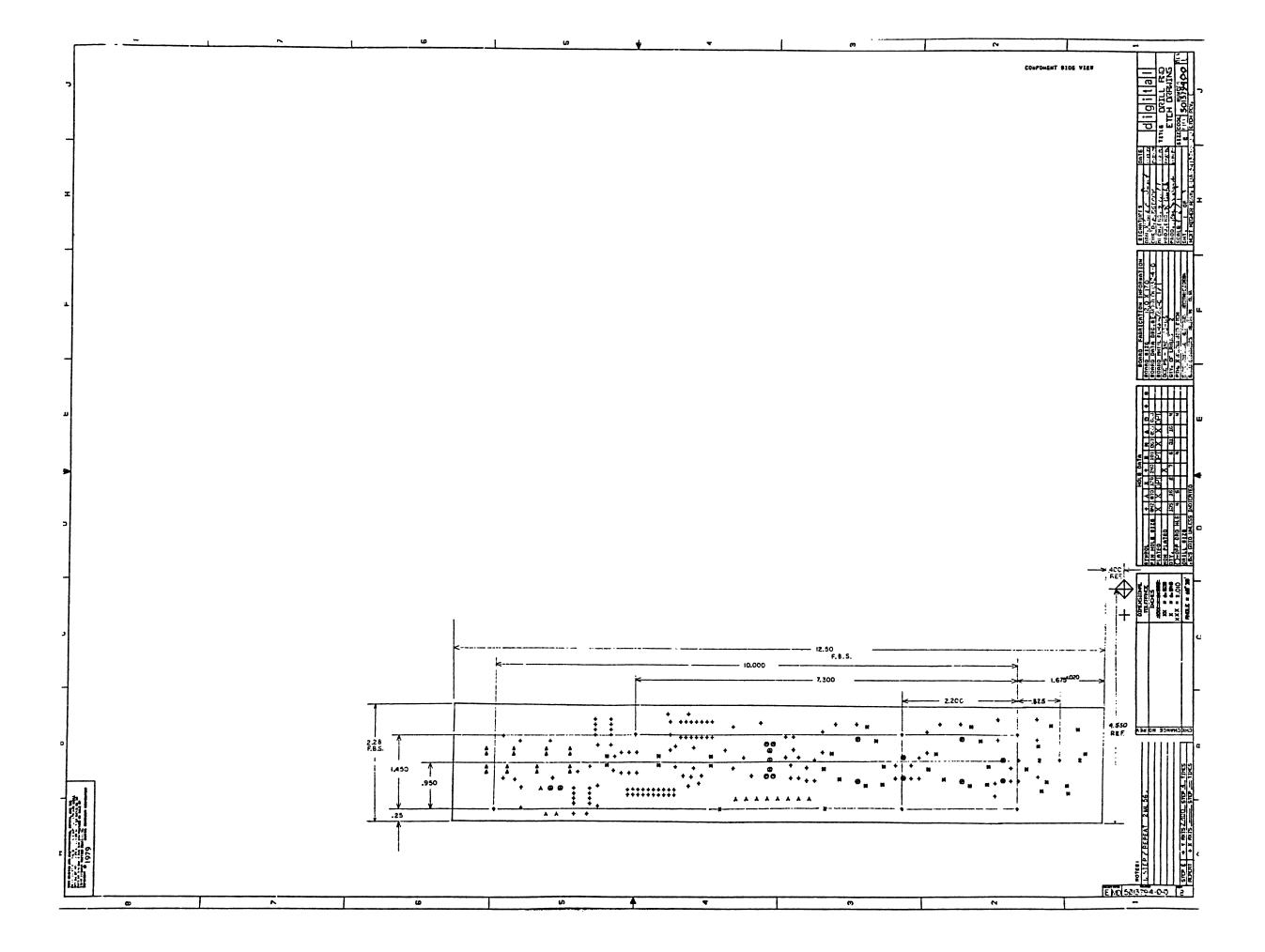
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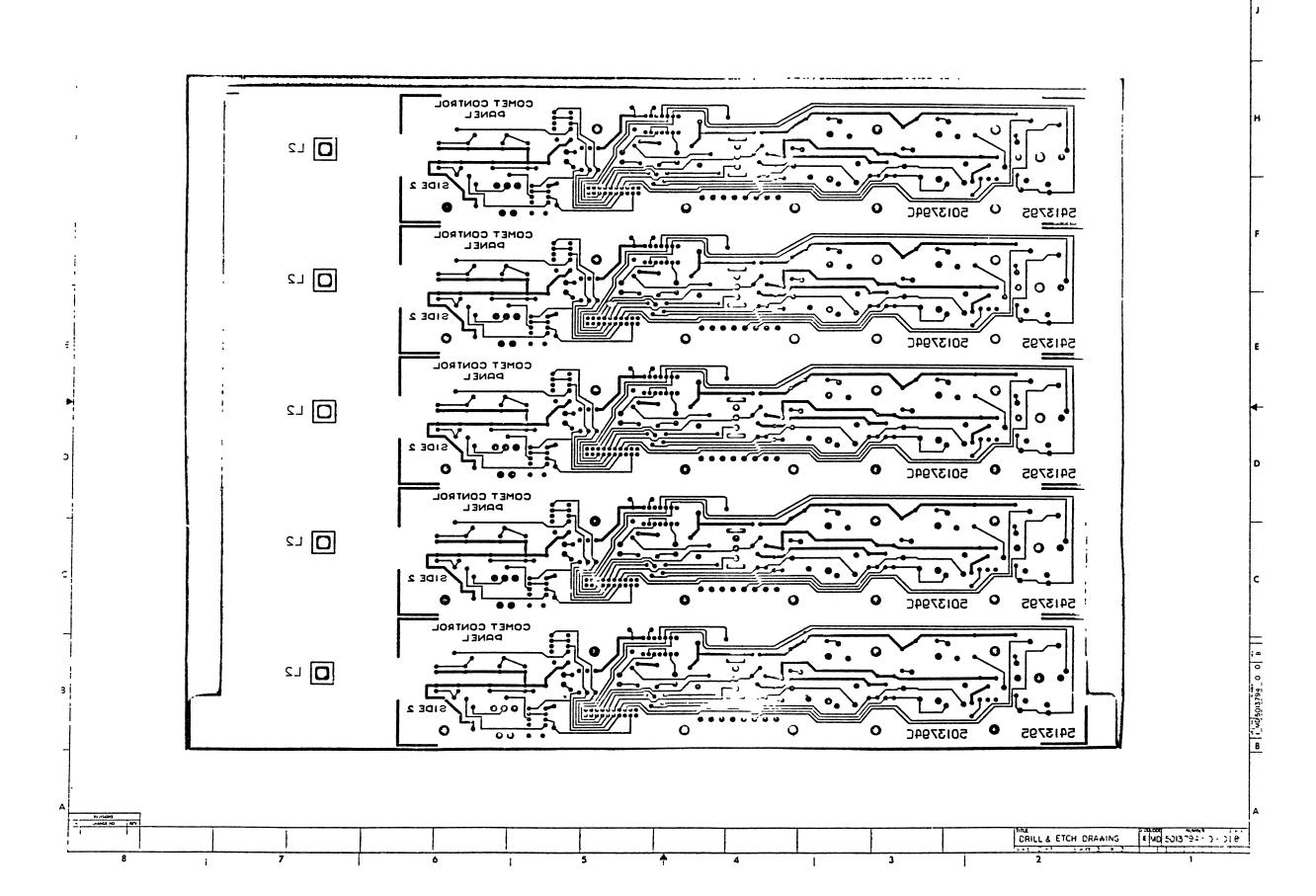
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30 NOTE: SOME MODULES WILL HAVE 10-05306 INSTEAD OF 1012084-01

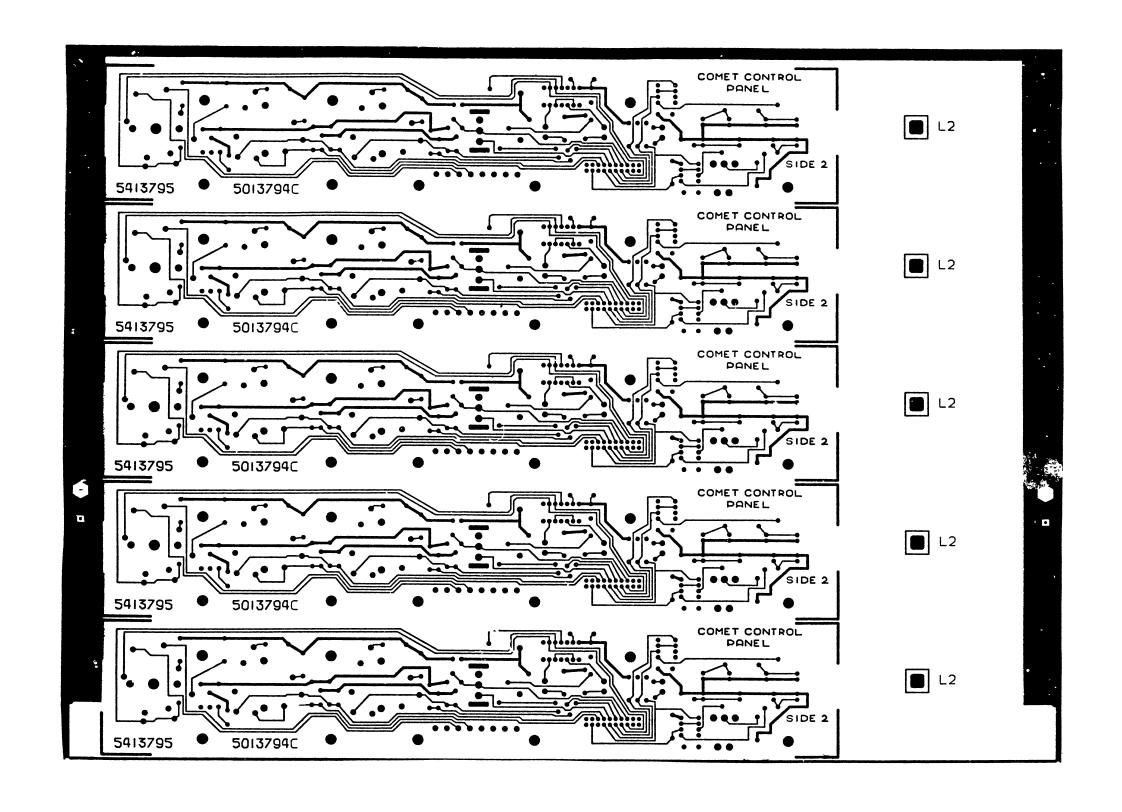
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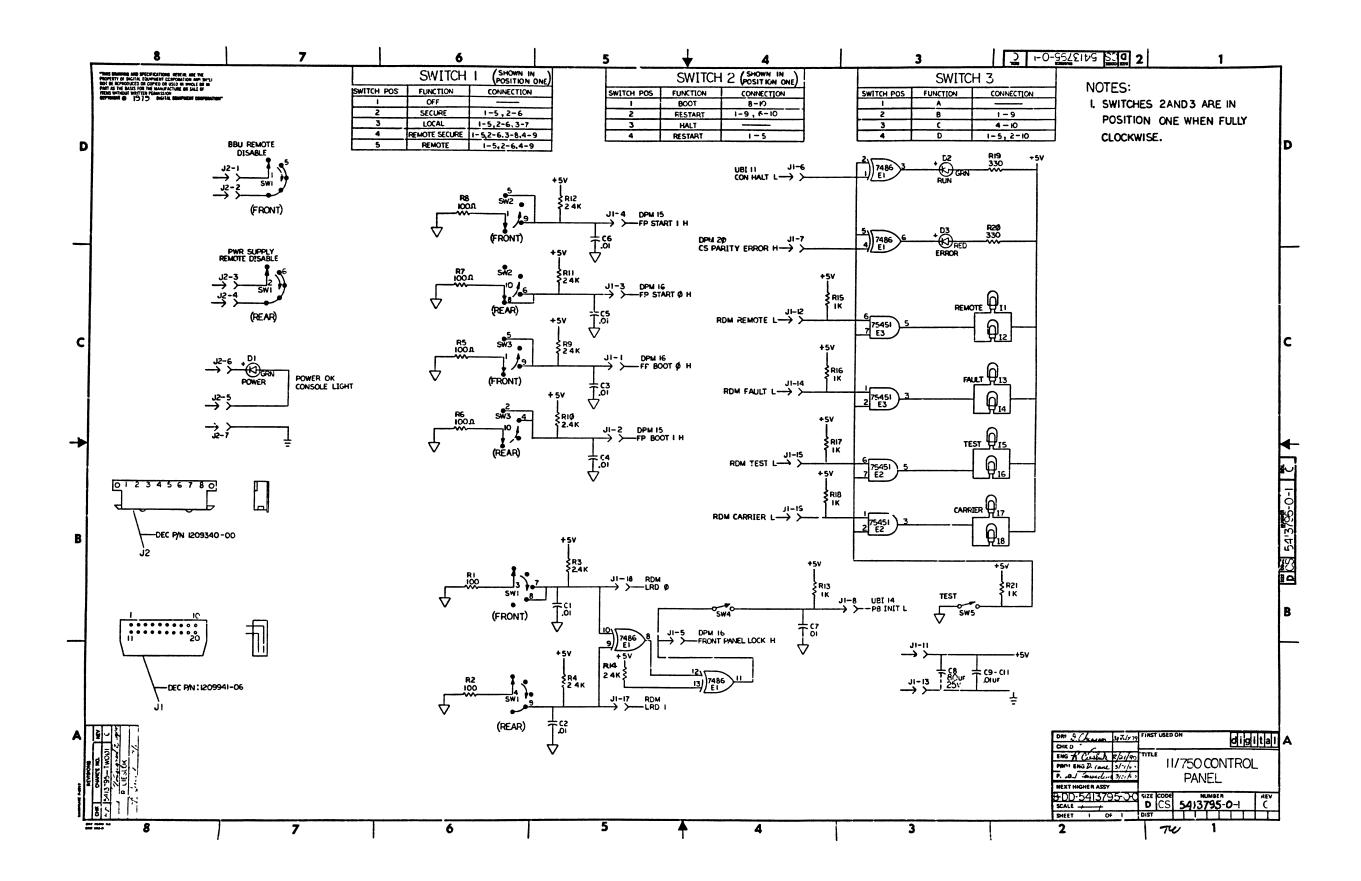


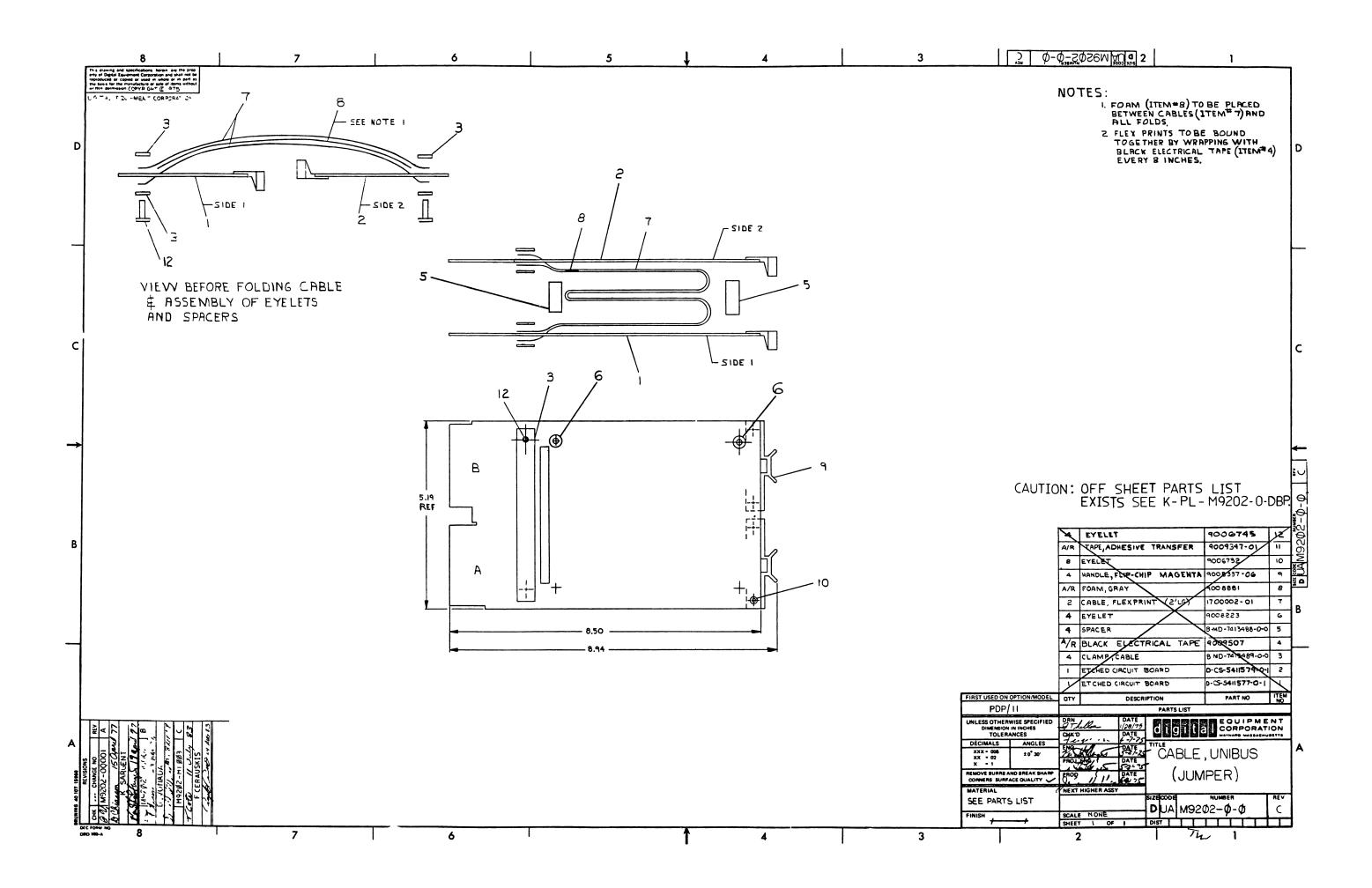
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REWORK INSTRUCTIONS ETCH CUTS SIDE I: O -2 AT FTH ABOVE ST O 3 AT LOWER FAC OF ST ETCH CUT DR-WING FECT 5013794 · O · C · B





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	C-AH-G727-0-5	ASSY/DRILLING HC	LE LAYOUT						1	
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